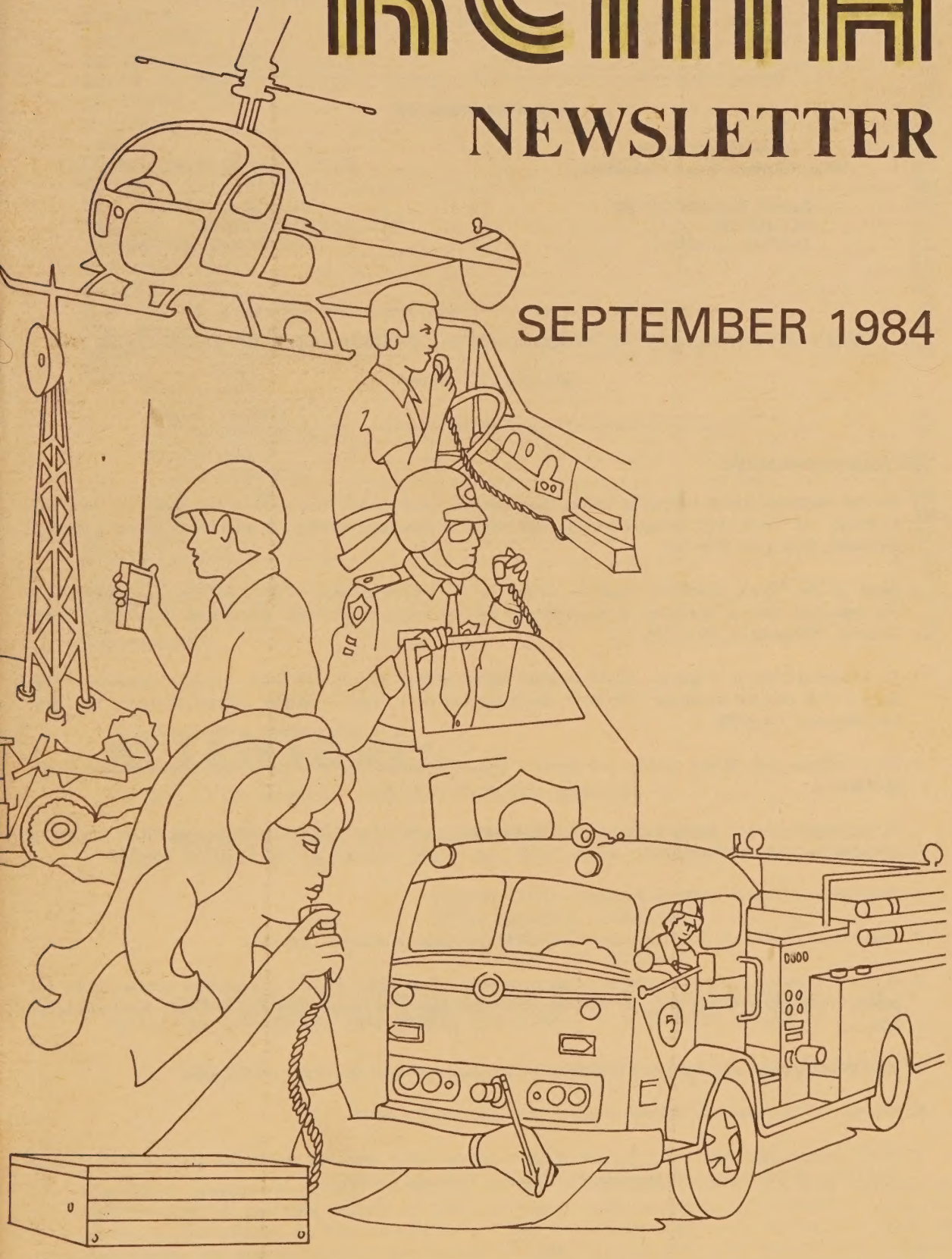
RCMA

NEWSLETTER

SEPTEMBER 1984



FIRST NATIONAL AND INTERNATIONAL ORGANIZATION
OF MONITOR RADIO LISTENERS

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RCMA NEWSLETTER

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RCMA REPRESENTATIVES TO THE ASSOCIATION OF NORTH AMERICAN RADIO CLUBS

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FOR YOUR INFORMATION:

1. All club business, unless otherwise noted, must be addressed to R.C.M.A. General Manager, P.O. Box 542, Silverado, CA 92676. This includes matters that relate to renewals, changes of address, newsletter delivery problems, joining the club, etc.

2. Input to the RCMA Newsletter must be mailed to the proper editors, whose addresses are included in the individual column headlines. If no particular column seems appropriate, send input to RCMA, 1 West Potomac, Williamsport, MD 21795.

3. To forward a letter to a specific RCMA member whose address you do not know, put your message to that person in a stamped envelope with your return address on it; mail to RCMA General Manager, P.O. Box 542, Silverado, CA 92676.

4. Please include your RCMA membership number with all correspondence to newsletter editors or club headquarters.

5. If you require a reply when writing to RCMA headquarters or to one of the editors, you MUST enclose a self-addressed, stamped envelope.

6. Please write on only one side of the paper.

7. Please don't combine in one letter several items that should go to different addresses.

8. If you want to type what you submit to the newsletter, please don't exceed a seven-inch column width and please single space. Doing this may save an editor from having to retype the material. Please don't use script type.

9. Your RCMA membership number and expiration date appear on your newsletter mailing label.

10. You may join or renew your membership for ONLY one year at a time.

11. RCMA accepts paid advertising. For information on advertising rates and mechanical requirements, contact Carol Ruth, RCMA Advertising Manager, P.O. Box 542, Silverado, CA 92676.

RCMA NEWSLETTER
Issue 103 September 1984
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RCMA, P.O. Box 4563, Anaheim, CA 92803

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ATTENTION -

TO ALL RCMA MEMBERS AND PROSPECTIVE MEMBERS -

PLEASE ADDRESS ALL CORRESPONDENCE (INQUIRIES ABOUT MEMBERSHIP, RENEWALS, ADDRESS CHANGES, DELIVERY OR RENEWAL PROBLEMS) TO:

CAROL RUTH
RCMA GENERAL MANAGER
P.O. BOX 542
SILVERADO, CA 92676

CORRESPONDENCE SENT TO RCMA'S ANAHEIM POST OFFICE BOX WILL STILL BE ANSWERED, BUT THERE WILL BE A 4 - 6 WEEK DELAY.

The RCMA Newsletter is published monthly by members of the RADIO COMMUNICATIONS MONITORING ASSOCIATION, P.O. Box 4563, Anaheim, CA 92803. Subscription rate/membership fee is $16.50 for U.S. residents. For persons in other countries, the following rates apply: Canada and Mexico—$18.50; Europe—$20.00, South Pacific and Asia—$21.50. These dues are payable in U.S. funds and are subject to change. Information contained herein is obtained primarily from members and does not necessarily present the position or reflect the opinion of RCMA as a whole. The RCMA does not necessarily recommend or endorse products or services advertised herein. The publication is copyrighted © Reproduction of any material in this newsletter is prohibited without prior written consent.

RCMA

...Calendar...

Send notices of upcoming events for the Calendar section to:
John Clark, RCMA, P.O. Box 4653, Anaheim, CA 92803.
Please send notices well in advance of the Newsletter deadline.

R.C.M.A. Greater L.A. Area Chapter

Contact : Eric J. Christensen (CA-LA-045)
P.O. Box 3962 Santa Fe Springs, CA 90670-1962

Meeting Location: Mercury Savings & Loan, Valley View and Lincoln
Buena Park, CA, 2nd floor(elevator in rear)
Unless otherwise noted meetings are on the 4th
Friday of the month and start at 8:00 PM

August 24 FRIDAY Tour of LAPD Communications Division - ECCCS 8:00 PM
4th Floor Basement, City Hall East, 200 N. Main Street at
Temple Street, Los Angeles.

RCMA has been given a very special invitation to tour LAPD's new and fantastic Communications Center which they call ECCCS. Our tour is 2 weeks after the ending of the Olympic Games and will provide us the opportunity to see the "Nerve Center" of the games and the LAPD. This is the chance to tour one of the newest and most sophisticated police communications centers in the nation. talk-in 144.33 mhz 224.660mhz

September 28 FRIDAY Tour Huntington Beach Police Department 8>00 PM
2000 Main St (Near Yorktown) Huntington Beach, CA

NOTE: This tour is scheduled at this time due to the fact that Mr Gene Hughes has a conflicting schedule and will be out of the area at this time. We will start our Tenth Year officially next month.

October 27 FRIDAY Special Guest Speaker Mr. Gene Hughes, Editor Police Call
8:00 PM Mercury Savings & Loan

Mr. Gene Hughes (CA-LA-006) will be the kick off speaker for the for the start of The Radio Communications Monitoring Associations 10th year.

November 16 FRIDAY Note this is the 3RD Friday of the Month.

TOUR - Orange County Fire Department Station 91 Dispatch Center.
180 S. Water Street, Orange, CA (cross street Almond) 8:00 PM

December 28 FRIDAY -- No meeting

January 25 FRIDAY Special Sharing Session
8:00 PM Mercury Savings & Loan

R.C.M.A. Minneapolis-St. Paul Area

Contact: Chuck Steier MN-008 (612) 927-9253
4820 Hwy 7, Minneapolis, MN 55416

A SASE on file assures notification of chapter activities (tours, gatherings, etc) non members are welcome to attend.

Calendar continued

R.C.M.A. Chicago

Contact Edward Robert Sirovy IL-004 312 969 2856
311 S. Williams Street, Westmont, Il 60559

Meetings: NANCINI'S Resturant 5555 St Charles Road, Berkeley, Il
two blocks east of St Charles Road exit from Eisenhouer
Expressway Extention I-290 (phone 312 544 7277)

Sunday August 19, 1984 Picnic/Field Exercise *
Saturday September 22, 1984 1:00 PM
Saturday November 10, 1984 1:00 PM
*Write for time, map, and details of this fun day

Visitors are welcome but please confirm the date in advance.

A SASE on file assures notification of tours and other item which may be scheduled on short notice.

R.C.M.A. Philadelphia

Contact: Gerald M. Schoaf, Floyd Schoenberg, C. Willard Load
PA-036 PA-076 PA-164
P.O. Box 213, Upper Derby, PA 19082 (215) 356-1982

Meeting the first Monday of the month, 7:30 PM at

Saint James Church Next to "The Grange"
Corner of Myrtle Ave & Warwick Road
Haverford, PA 19083

Talk In On: CB Channel 9 GMRS 467/462.675 Hams 147.66/.06

R.C.M.A. for D.C., MD, VA, & DE

Contact: Capitol Hill Monitors % Alan Henney (MD 069)
6912 Prince Georges Ave, Takoma Park, MD 20912

Southern New England Scanners Club

Contact Robert Murphy SNEC President 401-353-0208
P.O. Box 1591, Pawtucket, RI 02862

AUSTIN RADIO CLUB

P.O. BOX 5053 AUSTIN, TEXAS 76763

The Austin Radio Club (Austin Area Radio listeners Meeting) meets on the third Tuesday of each month at the Central Branch of the Austin Public Libraries; 800 Guadalupe. Meetings begin at 7:00 p.m. in Meeting Room B on the fourth floor. Bring your reception reports (any thing, any band) or items of interest.

_I_T_E_M_ _O_F_ _I_N_T_E_R_E_S_T_

AUSTIN PUBLIC WORKS: One more of the new frequencies has become active. 453.725 (KNEU 583) is now being used by the Public Event Facilities; Lester E. Palmer Auditorium and the City Coliseum. Unit numbers heard are in the 50's and 60's. Most of the traffic heard were security and maintenance related. Reception on 453.925 has also been noted, again maintenance related traffic. It was first reported that this was (or is) being used by the Airport Maintenance but on a low-power basis. One of two things is possible; some one new is on this frequency or the Airport has boosted its power or raised its antenna. Any info or ideas ?????

L.C.R.A. FREQUENCY UPDATE: An A.R.C. member has pass on some info on the frequencies now being used by the LCRA -

Calendar continued

	TX	RX
A) Mobile - Mobile	48.000	48.000
B) Mobile - Base	47.980	48.000
C) Line construction	47.960	47.960
D) San Marcos & Kerrville	48.020	48.020
E) Co-op Emergency	47.880	47.880
F) Phone patch	47.820	47.820
1) UHF F-1	456.100	451.100
2) UHF F-2	451.100	451.000
3) UHF F-3	456.000	451.100
4) UHF F-4	451.200	451.200

AUSTIN CAPITAL IMPROVEMENT PROJECTS (CIP's) Items listed in the 1984-90 CIP's include several items for the Austin Police Dept, Fire Dept, and E.M.S. These include- (add 000's to projected cost)

Cost	Year	Type of project
56	84/85	EMS Station 14- located with AFD Station 23
212	84/85	Expand EMS Stations 6 & 7 (in AFD Stations 8 & 12)
137	86/87	EMS Station 16- located at Beckett & McCarty
212	86/87	EMS Station 18- located at Anderson Mill & Wagon Gap (AFD ??)
		Remodel Station 10- at AFD 25
151	85/86	EMS Station 20- located at AFD 25
4300	85/86	AFD Training Center on Shaw Ln (next to APD T.C.
763	84/85	Remodel AFD Stations 2, 3 & 7
950	84/85	AFD Station __ - Braker Ln & Parkfield (1 engine)
1200	84/85	AFD Station __ - Bee Caves & Honey Tree (1 eng & ladder)
432	84/85	Remodel AFD Station 8 add 2 bays & dorm
910	84/85	AFD Station __ - Burnet Rd & Water Park Rd (1 eng)
550	85/86	Mobile Data Terminals for all combat units
1000	85/86	AFD Station __ - Brodie & Davis Ln. (1 eng)
1200	85/86	AFD Station __ - FM 2222 & Loop 360 (1 eng & ladder)
1000	86/87	AFD Station __ - Rain Creek Pkwy & Lost Horizons (1 eng)
1000	86/87	AFD Station __ - unspec. location (1 engine)
1200	86/87	AFD Station __ - Anderson Mill & Wagon Gap (1 eng & ladder)
1200	87/88	AFD Station __ - Burlson & Dorsett (1 eng)
1000	87/88	AFD Station __ - Crow Ln & North Bluff (1 eng)
1200	88/89	AFD Station __ - Parmer Ln & east of IH 35 (1 eng & ladder)
1000	88/89	AFD Station __ - Dessau Rd & Sprinkle Cut-off (1 eng)
1000	89/90	AFD Station __ - South 1st & Slaughter Ln (1 eng)
1200	89/90	AFD Station __ - unspec. location (1 eng)
590	84/85	APD Emergency Driving Course
635	84/85	APD Gym for Training Center
2304	84/85	APD South Patrol Center- gen vicinity David 4 Sector
1258	84/85	APD H.Q. & Patrol Bldg improvements

Public hearings are now being held to explain to the public what these and other CIP's for other dept. A Sept 8 date has ben set for this Bond Election. Misc. notes from CIP's- projected cost for a complete new EMS Station would be $ 500,000. This is why plans for future stations are being added to existing AFD Stations or being built with new AFD Stations. A North Patrol Center is now being built and the 1981-86 listed an East Patrol Center as a CIP Project but status on this is not known. The 81-86 CIP also listed other AFD Station sites but it appears the those listed in the 84-90 are where they are looking to in the future.

RECEPTION REPORT(S): can be sent to the address listed above. The mail box continues to run dry... Any info or items of intrest you can pass along would be helpful to the newsletter and other members. Try to attend the meetings and/or tell other radio listeners about our meetings. If you plan to travel this summer and take your radio along, pass along any reception reports of those areas, others may wish to add them to their log book(s) or to confirm listing from other areas...

Calendar continued

ANNOUNCING THE GATEWAY DX CLUB INTERNATIONAL . . .

Club Goals:

1. To publish a bulletin of reception reports (logs) for SW, AM (MW), FM broadcasts heard and TV broadcasts seen in the St. Louis area as well as elsewhere in the world.

2. To hold occasional meetings for St Louis area DXers to get acquainted, exchange reception reports, discuss equipment, logging techniques, and QSL strategies, etc.

3. To encourage and provide help and advice to novice DXers.

This club is open to DXers nationwide. Sample bulletins will be mailed for an SASE in the USA and Canada, 2 IRC's worldwide. Dues are $4 per year, and the bulletin is published every other month. Please contact:

Eric Bueneman, President
Gateway DX Club International
836 Lamplight Lane
Hazelwood, MO 63042 USA

NEED BACK ISSUES OF THE RCMA NEWSLETTER?

Lots (Months/Year)	No. of Issues	Price
Sept 75 - June/July 76 (No Oct or Nov published)	7	$2.00
August - Dec 76 (No Oct published)	4	$3.00
Jan - June 77	6	$4.00
July - Dec 77	6	$4.00
Jan - June 78	6	$5.00
July - Dec 78	6	$5.00
Jan - June 79	6	$6.00
July - Dec 79	6	$6.00

1980-83 issues are available at $1.50 per copy.

Order Total	Include This Amount of Postage
$ 1.50 - $ 5	$1
$ 5.50 - $10	$2
$10.50 - $15	$3
$15.50 - $25	$4
$25.50 - $35	$5
Over $35	$6

Send your request & check/M.O. (payable to RCMA) to Secretary Bill Ell, 2831 Hermanos St., Pasadena, CA 91107

All Ohio Scanner Club

David B. Marshall OH 146 President
50 Villa Road, Springfield, OH 45503

THOUGHT waves

Ginny Slick, RCMA Assistant Editor, 1 West Potomic, Williamsport, MD 21795

Greetings to you from your back-to-normal assistant editor. Special thanks go out to Carol, for her understanding acceptance of my need for a two-month period of free time to prepare for the wedding of my daughter, Kate. I also send thanks to Bill Mauldin, who took over the July column and filled it full of information gleaned from his survey. I think that the survey gave all of us some insight into the wants and needs of our membership. Some things are being acted upon even as I write this column, and I have a feeling that more surveys will be forthcoming. Be thinking about your involvement in our club. You could serve us and your self by filling in one or these questionaires.Surely your ideas are worth a few minutes of your time and a postage stamp!

Several columns will be under the direction of new editors this month or next. At least two of the retiring editors resigned because of a lack of reader input, so the new editors will be facing uphill battles for a while. You may have noticed that our Beginner's Column hasn't appeared for a while. The editor of this column isn't receiving any questions. As I have said many times past, you are the newsletter. If we don't get mail from you, the columns can't continue. So as you work your way through this month's issue, if you can't find anything for your area, "Ask not what your editor can do for you, but what you can do for your editor"!

I was excited to receive the first copy of the Capitol Hill Monitor"s newsletter in my mail. I congratulate Alan Henney and Arnold Miller on their effort. I'm really happy to know that members in this area now have a place to meet face to face. One of the features of the CHM (CHuM?) newsletter is a column titled 'Ask Joe". Members can ask questions of Joe M. Lewis, who has for years been a prodigious contributor to many columns of this newsletter. Best of luck to this dedicated group.

In the interests of honesty and calling'em like I see 'em, you should know that I recently found it necessary to send back my BC250. Lightning came in on our line even as I was pulling the plugs and antennas from my radios. The 250's transformer was fatally wounded, and I, grateful that this occurred during the month of June while I was too busy to listen anyway, packed it up and sent it to the factory. I received the radio on June 25th. It is working fine. I was charged reasonably. All this took place while the company was under great stress. According to Monitoring Times, Uniden has bought the Masco division of Electra. Only the manufacturing division is supposed to remain operative, so you can imagine what I thought when I read that article and knew that my radio was in their hands! But the company responded beautifully during what must be a crisis time for them and they are deserving of a pat on the back--- whoever they are now.

The following letter to our members from Bill Mauldin appears in place of the Your Thoughts column, since I had none of Your Thoughts to print! To put it another way------

Write Soon,

Ginny

Dear RCMA Members:

In the two years that I have been a member of RCMA, I have enjoyed the articles, watched our club and our publication grow, and have joined the ranks of the active club members by not only sending information to other editors for their use, but have become editor of Public Safety - Southeast. I want to thank all of you who have helped me and the other editors make our club publication the best available today. Our club and our publication are growing and getting-bigger and better with each passing month.

Many of you responded with a wealth of information and comments to the Reader Survey that Public Safety Southeast ran in April and May. Your input not only gave me data for many upcoming columns, new editor positions, a yearly index (which will be published soon), but it also gave those of us who write for you each month, new insight into what will allow us to continue to grow and promote our monitoring hobby to a greater degree.

The RCMA Newsletter has grown into the early stages of becoming a very interesting monthly magazine devoted to all kinds of communications monitoring! If you save back issues, note for yourself how the Newsletter is no longer a newsletter as such. I think, as others have commented, that it is time to change the RCMA Newsletter name to a new title which will give our club publication a greater chance to promote itself to others who share our interest. If you have any comments or suggestions, pass them along to Ginny and Carol.

A new reader survey will be out after the first of the year. If you, as a member, have any suggestions as to the questions we should ask, pass them along. We, as editors of your club publication, need to know your thoughts and feelings. We need more active input on all levels to allow our club and our magazine to better serve us and our hobby! Recent input regarding new editor positions for Computer Editor, Media Editor and Vacation Editor were all given careful consideration. Changes are being made, and there will be more to come.

I would like to say thank you to Carol and Ginny who have done a wonderful job running our club and this publication. I would like to thank the other editors who have worked for hours each month collecting and typing data for the columns which all of us enjoy reading! And, I would like to thank each of you who have taken the time to submit data to the editors, for without your active input, there would be no club and no monthly club publication. If each member would just list, twice a year, the frequencies that they monitor and send them to the editor of that coverage, we would have to triple our pages just to print the information. You pay a lot of money to be a member of this group. Get the most out of it by keeping in touch with your club and your editors.

We need your thoughts, your ideas, your input! Let us hear from you!

Sincerely,

Bill, Public Safety Southeast

MEMO TO MEMBERS:

Thought I'd take the rest of the page to send along some new information and remind you of some old. . .

The July issue had the dubious honor of being the first in several months to contain, in some copies, blank pages. If you were one of those who received such a copy - and have not already written, please write to me. Just drop a post card with your name, address, membership number, and the missing page numbers; I'll send you a replacement copy.

Looks like the October issue will have our first "computer column." Meanwhile, I join Ginny in welcoming the new editors whose first columns appear in this issue.

I'd like to remind the few of you who have not "switched over" to the Silverado, CA address to do so when sending renewal checks or needing answers to delivery/renewal problems. Column material and letters for publication must go to the appropriate editor.

Have you had interupted delivery of the newsletter because of an address change? If you have provided us with your new address before the end of the month prior to mailing the next newsletter (e.g., let us know before the end of August if you are moving in September), you should receive your newsletter with no delay. If, however, you let the Post Office notify us, you'll miss an issue.

Please remember when writing - for any reason - to include your RCMA membership number.

Carol Ruth
Managing Editor

Aircraft

Send private, commercial, firefighting and law enforcement aircraft frequencies of interest in the 108-136 MHz range and frequencies in other bands above 30 MHz associated with airports and aircraft plus questions, articles and tips related to aircraft monitoring to:

SGT David N. Silva, H&HS Crash Crew, MCAS-H New River, Jacksonville NC 28540

As the new Aircraft Column editor, I would like to say "HI!" to all the perspective contributors out there.

The Aircraft Column has been "grounded" lately but I hope that YOU and I can get such an important part of your newsletter back in the air and flying again real soon.

Before I get down to business, please allow me to introduce myself. My name is David N. Silva, I am 25 years old and originally from Massachusetts. Currently I am a Sergeant in the United States Marine Corps working as an Aircraft Crash-Rescueman and I also fly as a Crew Chief on a Beechcraft Super King Air 200 (UC-12B as the Marines like to call it.) I am currently stationed at MCAS-H New River, North Carolina.

I joined the RCMA in June 1978 in Anaheim, CA. when I was stationed at MCAS-H Santa Ana. I had just bought my first of many programmable scanners, a Bearcat 210. My original RCMA "callsign" was CAOR-077 but that was later changed to MA-008 as it is now. I currently own a Regency MX-5000, a Regency M-400, a Regency Digital Flight Scan and last and least a Bearcat 100. This is a rare model, it works.

Enough said. Now that I have been given the opportunity to write for your newsletter, I will introduce a few new Ideas which I hope will bring some interest and life back into the Aircraft Column. This column is not mine, it belongs to every member in the RCMA. I compile your information and a little of mine, into a presentable and hopefully interesting part of the newsletter which you will look forward to reading each month. This is not possible without your input to this column. With the interest that you have shown in this hobby by spending big bucks to buy expensive equipment and then spending more time and money to get it to work just the way you want it, writing this column should be easy.

I am no expert on aircraft but I have been an avid aircraft fan and hanger pilot since I was 10. I dont have an endless supply of freqs. and information either, but I do care enough about this newsletter and the Aircraft Column to do my best to keep it alive. This is your column. Write to me and tell me what you would like to see in your column. I will answer every letter I get, so go ahead and write and I'll answer.

I am not going to keep the Aircraft Column going with "war stories". I get sick of listening to them every day and I don't think you want to pay $16.50 or more per year just to read them.

My address is:

SGT David N. Silva
H&HS Crash Crew
MCAS-H New River
Jacksonville, N.C. 28540

Now, here is what you may or may not have been waiting for.

WASHINGTON CENTER - KZDC

ARR-DEP VHF			ARR-DEP UHF		
120.3	123.85	127.1	272.7	279.6	284.7
132.55	133.25	135.2	285.5	323.0	352.0
135.3	135.4	135.5	377.1	380.2	

BUCKS ELBOW			BUENA VISTA			CLINTON		
124.25	127.75	133.275	125.75	133.025	134.4	132.025	133.55	269.3
134.625	263.1	319.0	353.9	371.9		135.0	351.8	363.0
346.4	380.3							

WASHINGTON CENTER - KZDC CONT.

CUMBERLAND

132.95 134.15
257.7 287.9

DUNN LORING

120.35 123.9 132.55
133.9 285.4 317.6
327.0

ELKINS

127.25 257.7

FALLS CHURCH

118.6 128.6 133.65
381.5 285.6 348.7

FLINT HILL

132.875

GREEN BAY

124.05 125.45 133.725
135.4 269.4 317.7
351.9 377.1

HAGERSTOWN

134.5 290.3

MILLVILLE

133.125 135.275
281.4 387.1

NEW BERN

127.1 272.7

NORFOLK

128.15 306.9

NORTH MOUNTAIN

133.5 273.6

PATUXENT RIVER

132.55 277.4

PHILIPSBURG

132.125 343.9

RALEIGH

132.4 135.2
290.5 352.0

ROCKY MOUNT

135.3 380.2

SAYRE

363.1

SAMPSON

133.85 288.3

SHIP BOTTOM

134.2 327.8

SOMERVILLE

132.275 134.3
282.2 319.1

SOUTH BOSTON

125.85 307.0

WESTMINISTER

118.75 385.4

WHALEYVILLE

123.85 132.225 134.025
135.075 279.6 323.0
354.1 377.2

WILMINGTON

135.5 285.5

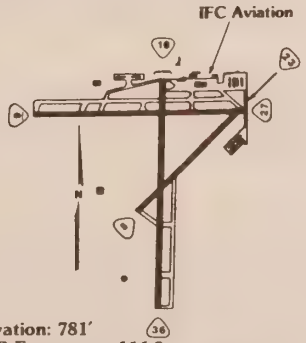
NORFOLK INTL - KORF

UNICOM - 122.95
ATIS - 127.15
FSS NEWPORT NEWS - 116.9T 122.1R
APP CON - 118.9 (257.3) 125.7 (395.8)
126.05 (372.1) 127.9 (249.9)
TOWER - 120.8 (257.8)
GROUND - 121.9
DEP CON - 125.2 (389.9)
CLNC DEL - 118.5

To the right is a new addition to this column. Each month I will feature an airport from somewhere in the U.S. and surrounding areas. If I get help from you, then I'll cover airports all over the world.

FLINT, MICHIGAN

BISHOP AIRPORT **FNT**



Elevation: 781'
VOR Frequency: 116.9
APC Frequency: 118.8 128.55
T.C.A.: TRCA: Flint Radar III
Localizer: 109.9 092° Rwy 9
Tower Frequency: 126.3
Std. Broadcast Station: WKDF 910
Ground Control: 121.9
Dep. Control: Flint 118.8 128.55
Unicom: 122.95
Runway Surface: CONCRETE
Lighted: REIL & VASI 18-27-36
Fuel: 80 - 100 Jet A
Traffic: TOWER TPA 1,000' 1800' MSL
Repairs: Major
Weather: 234-3987 Flight Watch 122.0
Flight Service: 238-5644 SAG FSS 122.3
ATIS: 116.9
F.B.O.: IFC AVIATION 122.95

Well, that's all for this month, hope to hear from you very soon.

Beginners Corner

If you are new to monitoring, or have something you don't understand, please write to me at the address given below and I will try to answer your question. When possible, your questions and answers will be printed. For those who wish an immediate reply, please send a self-addressed, stamped envelope.

Bob Quinlan, 4243 N. Melvina, Chicago, IL 60634

Hello again! Please excuse my absence in the Beginners Corner; it's been due to a lot of hours of work and no input.

In a letter from Robert Coate, MA-011, Bob writes about ordering crystals from Electra/Bearcat. He needed a crystal for a Regency scanner 483.3125 MHz. The local electronics shop didn't stock them so he placed an order. Knowing that the Regency has an (IF) of 10.7 and Bearcat an (IF) of 10.8, Bob did the calculations I mentioned in the November '83 Beginners Corner article on crystals. The crystal he ordered was 48314125 MHz, and when he placed them in the radio, they sounded off frequency. They were! When he placed the order, he didn't tell Electra about the calculations for the (IF) and that they were for a Regency scanner. So, Electra did the calculations also. Dear Bob, sorry about the $5 you lost! You gave Electra the wrong information - Electra will manufacture crystals for just about any radio.

I've received a letter from a Texas member regarding World Wide Voice, better known as W.W.V. I started to do the research on W.W.V. and found it involves a lot more than giving the correct time by which to set your watch. Since we don't have a Below 30 MHz editor right now, I thought I'd write up the results of some of that research.

First of all, there are two stations: W.W.V. and W.W.V.H.

W.W.V. 2.5, 5, 10, 15, 20 MHz
W.W.V.H. 2.5, 5, 10, 15, 20, 25 MHz

Well, you say, nothing special that. Ha! How about a little background on the station and the information that is broadcast 24 hrs a day, 7 days a week, 5 millaseconds long at a frequency of 1200 MHz?

For those of you who din't have any S.W. or H.F. receiving equipment, you can get the same thing by land line or telephone company by calling 1-303-499-7111. The call will disconnect after 3 minutes.

W.W.V. and W.W.V.H. broadcasts are universally agreed upon by UTC , or Universal Time Coordinated. The information transmitted is used to track and check data from artifical satellites and to make scientific and technical calculations. The accuracy of the signal is about 1 in 10th to a second correct.

There are semi-silent periods at each station; W.W.V. is from 45 -50 minutes after the hour. During the last 7.5 seconds of every minute, the announcement is as follows: "At the tone, the time will be __ hours and __ minutes Universal Coordinated Time. The W.W.V.H. station transmits the time from 45 to 52.5 seconds after the minute.

During the broadcast, there is a 100 Hz sub-carrier signal containing information about the correct day, month, and year.

The forecast of propagation for radio reception is broadcast from W.W.V. past the 15th minute of each hour. This propagation will cover the North Atlantic and Eastern Regions. Broadcast times are 0100, 1700, 1300, or 1900 UTC.

There are weather warnings broadcast by W.W.V. and W.W.V.H. for the Atlantic and Pacific Oceans, too. W.W.V. transmits at 0500,1100, and 2300 UTC, and W.W.V.H. at 0000, 0600, 1200, and 1800 hours UTC. These are available on W.W.V. between 11 and 13 minutes after the hour; on W.W.V.H. at 50 to 52 minutes after.

There is also information from I.N.W.D.S. (International Ursigram and World Day's Services). This is an alert for experimentors in radio, geophysics, and science issued daily at 0400 UTC.

Canada, our neighbot to the north, has an information time station called the National Research Council of Ottowa:

3330, 7335, 14.670 KHz (continuous voice on all frequencies)

The station has 3 KW power at 14.670 KHz and 333 KHz and 10 KHz at 7335 KHz.

There are about 18 radio stations in the world that broadcast time. Here is a list of them:

Call Sign	Location	Carrier Frequency
ATA	New Delhi, India	10
FFH	Paris, France	2.5; 5; 10
HBN	Neuchatel, Switzerland	2.5; 5
IMA	Rome, Italy	5
IBF	Turin, Italy	5
JJY	Tokyo, Japan	2.5; 5; 10; 15
LOL	Buenos Aires, Argentina	2.5; 5; 10; 15; 20; 25
MSF	Rugby, England	2.5; 5; 10
OMA	Prague, Czechoslovakia	2.5
ZLSF	Lower Hut, New Zealand	2.5
ZUO	Olifanstsfontein, South Africa	5
WWVL	Fort Collins, Colorado	20 KHz

For those of you not asleep by now, I hope you and your family have a good and safe summer wherever you are. Hope to hear from you soon! Please - send questions; I am dry!!!

Happy Monitoring
Bob Q. IL-157

Business, Etc.

This column is for reporting frequency and radio system information for the following varied services: business, forest products, petroleum industry, special industrial, manufactureers, news media (behind-the-scenes radio, TV & newspaper), motion picture industry, security (private patrol, detective agencies, campus security & police, amusement park & stadium security, shopping center & mall security, plant/business/hotel security, etc.), General Mobile Radio Service (GMRS), mobile phone/RCC & paging, trucking firms, bus lines, taxi cabs, tow trucks, utility companies (private & municipal water, power, electric, gas, telephone, etc.), and all school & college related frequencies. Send information and questions pertaining to the radio services covered in this column to: Brandt Niemuth, P.O. Box 541, Rosemont, IL 60018

Welcome to another chapter in the ongoing saga of the "Business, Etc" column.Without further ado, on to the "goodies" for this month. The first contribution comes from Larry (WI-005) for Adams County, Wisconsin. The second, as promised last month, is the start of a major contribution from Bob P. (IL-267). In this part, please note that there are some base only freqs for the taxicab freqs. The necessary mobile freqs can be found in the following table (VHF - high band only, the UHF mobile freqs are exactly 5.000 mhz above the listed freq):

Business, Etc. continued

Base	Mobile	Base	Mobile	Base	Mobile
152.27	157.53	152.345	157.605	152.405	157.665
152.285	157.545	152.36	157.62	152.42	157.68
152.3	157.56	152.375	157.635	152.435	157.695
152.315	157.575	152.39	157.65	152.45	157.71
152.33	157.59				

Please note that these freqs are normally for taxicab use in large urban areas like New York City, Chicago, and Los Angeles. They seem to have different uses in other, less populated areas, where you may find a user on the base freq and not the mobile freq.

From Larry (WI-005) for Adams County, Wisconsin:

30.88	KNBV671	Len's Drywall Service
31.16	KKZ 315	Bob Grabarski
33.16	KNCN746	Dolata's Excavating
35.72	KNBZ296	Fuhrman's Electronics
35.74	KNGS397	Tom Stanton
37.78	KSB 699	Wisconsin Power & Light Co
43.02	KRQ 855	Wayne Manternaca
45.68	KDE 281	Adams County Hwy Dept
47.52	KZZ 211	Art Overgaard Inc
48.82	KZZ 531	Pipe Line Service Co Inc
49.58	WSM 824	4X Corp

(Ed note: If I did not know better, I would think this was a partial "Low Band Skip" logging)

150.845	KBD 916	Jermoos Inc
151.49	WQQ 784	Gary Bula Farms Inc
151.535	WXA 708	Pine Bluff Farms Inc
151.595	KNFB607	Roger Hilliard
151.655	KNGQ527	Jefferson Farms Inc
151.685	KNDX865	Nationwide Distributors Inc
151.715	KNFV256	Johnston Farms
151.715	KBJ 399	Quinell's Septic Service
151.745	KNGX276	Shirley Jean Gold
151.745	KNAG491	Wallendal Supply
151.775	KNBB888	H & E Farms
151.775	KSZ 928	Dana L Ginter
151.805	KNCJ326	Schad Realty Inc
151.805	KNAJ777	Wide Surfacing
151.835	KZQ 909	Foster Enterprises Ltd
151.835	KNCB912	Romies Magic Carpet Shoppe
151.865	KUK 238	Martin B Heinz
151.925	KNEL731	Friedrick Rothfelder
151.925	WQJ 770	Jafcom Corp
152.3	KTR 898	Gary Bula Farms Inc
152.3	KDZ 856	East Briar Inc
152.36	KTR 898	Gary Bula Farms Inc
152.42	KNGQ974	Steffco Supply Co
152.885	KUL 369	Triangle Farms
152.93	KYH 667	Oconomowoc Canning Co
152.96	KTB 733	Empire Farms Inc
152.96	KTB 734	Empire Farms Inc
152.96	KTB 735	Empire Farms Inc
152.96	WQQ 429	Elliott Farms Inc
152.975	KYK 983	Kayes Masonry Construction
153.005	KRN 249	Nicklaus Enterprises Inc
153.035	WQT 256	Robert Wood
153.53	KSB 674	Wisconsin River Power Co
154.515	KXW 841	Larry Podoll
155.175	KUG 231	Adams Friendship Schools
157.68	KZZ 806	Adams County Memorial Hospital
157.725	KNCE701	Charles A Church
158.25	KUR 604	Adams Electric Co-Op
158.25	KUR 566	Adams Electric Co-Op
158.25	KSD 394	Adams Electric Co-Op
158.4	KO 3589	Struck & Irwin Inc
158.46	WQU 829	James Elliott

461.375	KJH 365	Jefcom Corp

CHICAGO AREA CONFIRMED SCANNER FREQUENCIES

compiled by Bob Parnass, AJ9S, for the
Indian Hill Amateur Radio Club and RCMA Chicago Chapter

notes:

1. This list is NOT FOR SALE!

2. Please send any additions or corrections to:

   Bob Parnass
   530 Kiowa
   Naperville, Illinois 60565

3. Most frequencies in the 450 - 512 MHz band are paired, that is, each channel consists of two frequencies:

   - In the 450 - 470 MHz part, the two are always exactly 5.0000 MHz apart (e.g. 451.000/456.000, 461.675/466.675).
   - In the 470 - 512 MHz part, the separation is exactly 3.0000 MHz (e.g. 470.7875/473.7875).

   Base stations, repeaters, and mobile relays always transmit on the lower of the two; mobiles may use either. In a repeater system, the mobiles and control stations must use the higher frequency of the channel pair.

4. The author wishes to thank Brandt Niemuth, Mike Yanul, Ron Kukuk, Dave Findling, and others for their contributions to this list.

5. The following abbreviations are used in this listing:

   - h = heard/verified by Bob Parnass
   - o = reported as heard/verified by other listeners
   - it = frequency is used by itinerant stations
   - mo = frequency is for mobile only, repeater input
   - pg = paging frequency
   - 2w = frequency is used by low power transmitters

Editor's Note: This listing will conclude next month.

h	KCT784	151.6850	303 Cab Assn (Wilmette)
h	KOG651	151.6850	"
o	KLZ376	462.0000	A & R Security Inc (Blue Island)
h	KAP482	463.3500	AAA Chemical Toilets (Chicago)
h	KUR809	463.3500	"
h	KQ6074	468.3500 mo	"
h	KS5468	468.3500 mo	"
h	WDT780	468.3500 mo	"
h	WPT97	468.3500 mo	"
h	KMH223	461.3250	Accurate Plumbing & Heating (Chicago)
h	KAC4317	462.7000	Active Detective (Chicago, Park Forest)
h	KAC4319	462.7000	"
h	KXE668	461.4500	Active Disposal Service (Chicago)
o	WQF984	154.5150	Active Lock & Key Svc (Arlington Hts)
h	WIF523	471.8625	Advanced Appliance Svc (Chicago)
h	KNCV913	462.0750	AIC Security Inc, base id="Central" (Chicago)
h	KRM965	158.7000	Air Call Communications Inc, paging, cw id (Decatur)
o	KNDZ761	463.7750	Air Host Motel (Chicago)
h	KRS997	463.8750	Airport Transportation, limo svc (Carol Stream)
h	KB6690	471.7375	Airtran-O'Hare, Inc, limo vans (Naperville)
h	KBY368	471.7375	"
h	KXC586	43.0000	Alarm Detection Systems, central alarm co (Aurora)
h	KZQ868	464.0250	Alexian Brothers Medical Center, id="Med" (Elk Grove Vlg)
o	KBS278	151.9250	Allied Maintenance (Chicago, O'Hare Airport)
h	KZZ666	461.2250	Allstate Insurance (Chicago)
h	WBM962	461.2250	Allstate Insurance (Glenview)
h	KW8404	461.2250	Allstate Insurance (Northbrook)
h	WBM961	461.2250	"

h	KQU327	151.9550		Almar Company Farm, paging, cw id (Rockford)
h	KWY324	461.8500		Ambassador Limousine (Addison)
o	WZH679	461.3250		Amber-Way Inc, security svc (Chicago)
o	KC4969	466.3250	mo	"
h	KWN322	461.9000		Ambulance Service Co (Chicago)
h	KNCF592	464.3000		Amega Security Enterprises, bodyguards, id="A#" (Chicago)
h	KDW457	463.7750		American Airport Limousine (Chicago)
h	KRU893	460.9500		American District Telegraph Co, ADT alarms (Chicago)
h	KLP661	151.7150		American National Bank, paging, voice id (Chicago)
h	KLT261	151.7150		"
h	WXR944	152.8400		American Paging Inc, paging, cw id (Addison)
h	KAC6023	462.5500		American Red Cross (Chicago, Sears Tower)
h	KNDL556	464.0500		American Sightseeing, charter buses (Chicago)
o	KYX817	152.3150		American Taxi (Arlington Hts)
o	KNXJ904	152.4200		American Taxi, dispatcher (Arlington Hts)
o	KNXJ904	157.6800		American Taxi, mobiles (Arlington Hts)
o	KSA723	152.3000		American United Cab Co, dispatcher (Chicago)
o	KSA723	157.5600		American United Cab Co, mobiles (Chicago)
h	KNCS460	462.4500		Amoco Chemicals Corp, paging, cw id (Channahon)
h	KRL480	151.6550		Amoco Research Center security, paging, voice id (Naperville)
h	KNBY285	461.2250		Andy Frain Security Svc (Chicago)
o	KGQ938	461.2250		"
o	KSI603	462.1250		Anti-Cruelty Society (Chicago)
o	KN6940	467.1250	mo	"
o	KRK63	467.1250	mo	"
h	KDN460	464.7500		Aristocrat Inns of America, paging, voice id (Chicago)
o	WQH523	464.9750		Arlington Park Racetrack, paging, sports (Arlington Hts)
o	?	151.6250	it	Arlington Park Racetrack, sports (Arlington Hts)
o	WQH523	464.4750		"
o	KNAX936	464.5250		Arlington Place Hotel (Arlington Hts)
h	KAT426	151.8950		Arlington's Best Taxi aka/Eskay Transportation (Arlington Hts)
o	KZJ442	461.5750		Armored Electronic Security (Chicago)
h	WXL653	151.6250	it	Arthur Anderson & Co, accountants (St Charles)
h	WXL653	151.9250		"
h	KTV520	151.7150		Artlip, Wayne, HVAC, plumbing (Aurora)
h	KVK399	461.3000		Astro Air Express (Chicago)
h	KSB584	160.6500		Atch Top & Santa Fe, RR, Systemwide road channel (Joliet)
h	KZJ541	151.8950		Aurora College, security, ids="AC#" and "KZJ" (Aurora)
h	KNBZ714	461.6750		Aurora Twp Dial A Ride (Batavia)
h	KNBZ714	466.6750	mo	"
h	KZA297	464.9750		Aurora Wiring & Fixture, id="AW#" (Aurora)
h	KSC991	152.3300		Auto Ride Cab Co, dispatcher (Elmhurst)
h	KSC991	157.5900		Auto Ride Cab Co, mobiles (Elmhurst)
h	KNER282	151.7450		Auto Shop on Wheels, id="6614" (Bolingbrook)
h	KDL346	150.8900		Automotive Unlimited aka/Kozzger, James (Downers Grove)
h	KNHB385	463.8750		Aviation Red Carpet, fuel trucks that svc O'Hare (Chicago)
h	WSE579	151.6250	it	Avionics Associates Inc, id="AAI base", Joliet (USA-wide)
o	KNCP445	464.8250		Avis Rent a Car (Chicago)
o	KSX670	464.8250		Avis Rent a Car (Chicago, Schiller Park)
h	KNGV839	461.5750		Award Security (Chicago)
h	KUH357	461.3250		B & B Heating & Cooling (Chicago)
h	KZF573	151.8950		Babcock Refrigeration aka/Babcock, Michael (Aurora)
o	KLK790	460.9000		Baker Protective Svcs, security (Chicago)
o	KAA8931	462.7250		"
o	KAA8929	467.7250	mo	"
o	KAA8930	467.7250	mo	"
h	KXO788	461.6750		Barr Vending Svc, vending machine repair (Batavia)
h	KU6109	466.6750	mo	Barr Vending Svc, vending machine repair (Batavia, St Charles)
h	WAQ729	466.6750	mo	"
o	KZZ412	151.9250		Barrington Packaging/aka Seddon, John (Barrington)
h	KBE263	462.0750		Bell Realty Inc (Lockport)
o	KNCN667	461.9250		Bell Sewer Co (Chicago)
h	?	151.6250	it	Bell System Center for Technical Education (Lisle)
h	KZF898	152.3300		Bellwood Hillside Westchester Cab Co, dispatcher (Bellwood)
h	KZF898	157.5900		Bellwood Hillside Westchester Cab Co, mobiles (Bellwood)
h	KNGL727	461.1750		Best Tire Co (Chicago)
h	KNEA526	464.3000		Bickford Electric (Sugar Grove)
h	KNDV243	463.3500		Black Dot Computer T... (Chicago)
h	KQ2902	468.3500	mo	Black Dot Lithographers (Chicago)
h	WOD60	468.3500	mo	"
o	KA81615	151.6250	it	Blomsess Allstars Inc, carnival, entertainment (USA-wide)
o	KA86612	151.6250	it	"
h	KWX979	151.7750		Board of Regents (Whitewater, WI)
h	KB9283	464.9500		Bolingbrook Express/Joliet Limo, id="BX#" (Bolingbrook)
h	WDW483	464.9500		"
h	KRG854	35.1800		Boyanski, Sidney (Palatine)
h	KAB2254	462.7250		Bradley Supply Co (Chicago)
h	KUW509	461.3500		Brakur Custom Cabinets, id="Brakur base" (Lockport)

Business, Etc. continued

h KNAX315	463.8750		Brandywine Towing (Villa Park)
o KVA276	464.4750		Brickyard Mall, shopping center (Chicago)
h KTC828	159.4950		Brinks, Inc, security, armored cars (Chicago)
h KN8008	461.4250		Brinn Truck Tire Svc (Lombard)
h WGI802	461.4250		"
o KAB7781	462.5750		Britt Airlines (Chicago)
h WQT839	464.0250		Broadview Cab Co Inc, id="B#" (Lombard)
o KRM789	155.1150		Brookfield Zoo aka/Cook County, police (Brookfield)
o ?	154.6000	2w	Brookfield Zoo, maint, low power (Brookfield)
h KSD713	47.5600		Brown & Lambrecht Earthmovers Inc (Joliet)
h KZT617	461.4750		Brown Bros Heating (Plato Center)
h KSC292	161.1000		Burlington Northern, RR, Systemwide road channel
h KYT888	463.6500		Burns International Security Svcs (Chicago)
h KZZ207	463.6500		"
h WAX709	463.8500		"
h WAX710	463.8500		"
o KXC658	460.9750		"
h KDM210	151.6250	it	Burns International Security Svcs, Hancock Bldg (Chicago)
h KNEQ907	153.0500		Burroughs Central Trng Ctr, security, maint, vans (Lisle)
o KAC6025	462.5500		Butler Aviation (Chicago, O'Hare Airport)
o KAC8727	462.5500		"
o KAC9872	462.5500		"
h KIJ931	464.9500		C & D Towing (Mokena)
h KNAY822	31.8400		Cablevision of Chicago, CATV svc trucks (Chicago)
h KTH813	31.8400		"
o WSJ244	151.9550		Campbell, Jim (Glen Ellyn)
h KWS543	464.0250		Campbells Svc Station, id="543 base" (Lombard)
o KBJ826	461.5250		Carl Sandburg Village (Chicago)
o KFJ829	461.5250		"
h KCJ619	154.5150		Carlson Heating & Cooling (Glenview)
h KFH244	153.3500		Caterpillar Tractor (Aurora)
h KTF583	462.3750		"
h KJP265	158.3100		Caterpillar Tractor, paging, cw id (Aurora)
h KVW914	462.8250	pg	"
h KJU786	153.2000		Caterpillar Tractor, plant & paging, cw id (Joliet)
h KLN840	462.1750		CB Construction, "CB base to CB 3" (Chicago)
h KZU925	461.8750		Centel Cable TV Co/aka Consolidated Cable, CATV (Aurora, Batavi
h WGX91	461.8750		"
h KZU925	466.8750	mo	Centel Cable TV Co/aka Consolidated Cable, CATV (LaGrange)
o KFN397	151.9850		Centel, Central Telephone (Des Plaines)
h KEW275	472.1625		Certified Security Systems aka/Certified Burglar Alarms (Chicag
h ?	462.1750		Champion Drywall Inc (Shorewood)
h KBF844	152.2700		Checker & Yellow Cab, dispatcher (Aurora)
h KBF844	157.5300		Checker & Yellow Cab, mobiles (Aurora)
h KSB695	452.2500		Checker Cab (Chicago)
h KSB695	452.2750		"
h KSB695	452.3000		"
o KSB695	452.3500		"
h ?	160.8900		Chicago & Northwestern, RR, Road #1
h ?	161.0400		Chicago & Northwestern, RR, Suburban trains (Glen Ellyn)
h KNBY809	465.0000	pg	Chicago Communications Service, paging
h KWB789	465.0000	pg	"
h KZZ966	472.2125		Chicago Express Co, id="CXI" (Chicago)
h WWA99	475.2125	mo	"
h KDN244	461.2000		Chicago Haulage trucks (Schiller Park)
o KES603	464.7750		Chicago Housing Authority, itinerant (Chicago)
o KQ6511	151.7750		Chicago Magnet Wire (Elk Grove)
h KFR519	463.3750		Chicago Messenger Service
h KRC337	463.3750		"
o KNBE644	464.4750		Chicago Ridge Mall, shopping center (Chicago Ridge)
h ?	160.7700		Chicago RTA, RR, CMSP&P, Spauling Tower, rptr (Spaulding)
o KFH542	464.8750		Chicago Sun-Times Bldg, security (Chicago, Wabash St)
o KVM542	464.8750		"
h KDD915	173.3750		Chicago Sun-Times, circulation, paging (Chicago)
o KBV603	173.2750		Chicago Sun-Times, photographers (Chicago)
h KSD567	173.2250		Chicago Tribune, metro circulation & operations (Chicago)
o KBG509	452.9750		Chicago Tribune, photographers (Chicago)
o KU4375	464.4250		Chicago Tribune, Tower security (Chicago, Michigan Ave)
h WQP427	453.0000		Chicago Tribune, Tribune Tower & Press Plant security (Chicago)
h KDE502	461.5750		Chicago Tube & Iron Co, id="CT&I" (Chicago)
h KZ8897	466.5750	mo	"
h WCB639	466.5750	mo	"
o K?BZ726	461.0500		Chicago Video Inc (Chicago)
h KBS371	462.8250	pg	Children's Memorial Hospital, paging, cw id (Chicago)
o KDU646	151.7750		Chobar's Towing Svc aka/Chobar, James (Plainfield)
o KZZ614	43.6400		Christ Hospital, paging (Oak Lawn)
h KLL777	461.7750		Christ Hospital, security (Oak Lawn)
h KRO912	151.6550		City of Children, paging & operations (Mooseheart)

Business, Etc. continued

o KLA524	453.9000		College of DuPage, police (Glen Ellyn)
h KE8149	472.4375		Colonial Standard, gas station (Chicago)
h KVU329	472.4375		"
h WCV377	472.4375		Colonial Standard, gas station (Mt Prospect)
o KDN391	464.1500		Colour West Ltd, film developers (Addison)
h KNFT411	152.4800	pg	Commonwealth Edison, paging, cw id (Joliet)
h KZE406	152.4800	pg	Commonwealth Edison, paging, cw id (Morris)
h KNHJ712	461.6750		Communications Technicians & Consultants Inc (Joliet)
h KXD376	461.9500		Community Action Svcs Inc (Chicago)
o WSE934	151.7150		Community Cab (Des Plaines)
h KLS718	151.7150		Community Hospital, paging, voice tape id (Geneva)
h ?	463.4000		Commuter Bus Systems, CBS (Lombard)
h KWK495	471.9625		Continental Air Transp, bus, id="Central" (Chicago, Rosemont)
h KWK496	471.9625		"
h KWO662	474.9625	mo	"
h KZZ470	464.5250		Continental Air Transp, bus, id="Transportation" (Chicago, Rose
o KLO510	151.6550		Continental IL National Bank (Chicago)
o KKN818	154.5150		"
h KRO577	151.9850		Continental Telephone (DeKalb)
o KAB2951	462.5500		Cook County Alert, REACT-type security group (Arlington Hts)
o KWV846	154.5400		Courtesy Cab (Morris)
h KFB582	152.3900		Courtesy Cab, dispatcher (Downers Grove)
h KKP885	463.4750		Curly's Trucking aka/R S Noerenberg (Batavia)
h KQ6471	463.4750		Curly's Trucking aka/R S Noerenberg (Naperville)
h WAP512	468.4750	mo	"
h KTI839	151.5800		CW Ready Mix Inc (Naperville)
h K??839	152.9000		CW Ready Mix Inc, expired (Naperville)
o KSK399	151.9550		Cycle Medics (Glen Ellyn)
o KXA512	151.9550		"
h KDK530	472.4375		Czarnowski Display Svc (Chicago)
h KG5014	472.4375		"
h WGI896	472.4375		"
h KLQ544	463.3750		Daily Courier News (Elgin)
h KF7303	468.3750	mo	"
h WDT784	468.3750	mo	"
h KNFZ337	463.6250		Data Air Courier, id="Dac#" (Chicago)
h KWE883	472.1125		Davies Supply Co (Chicago)
h WAD533	472.1125		"
o KBK855	463.9500		DeKalb Taxi (DeKalb)
o KG6918	468.9500	mo	"
o WDC324	468.9500	mo	"
h KTM219	464.4250		Delnor Hospital, paging, cw id (St Charles)
h KWH684	461.9500		Diamond Scrap Yard (Chicago)
h KZ9697	466.9500	mo	"
h KUZ219	151.4900	it	Dieter, Joe & Sons, trucking, farm goods (Naperville)
h KNEF217	151.8050		Docom/aka Registered Professional Engr (Naperville)
h KNCE332	463.3000		Dominick's Finer Foods, repair trucks (Chicago)
h KFF262	463.3000		Dominick's Finer Foods, repair trucks (Northlake)
h WWW55	463.3000		"
h KRL35	463.4000		Dor-O-Matic, manufacturer of electric doors (Chicago)
h KN5023	471.6875		DuKane Limousine Svc/aka DuKane Red Carpet Svc (W Chicago)
h WGP481	474.6875	mo	"
o ?	45.4000		DuPage County: ESDA, local use within county
o ?	857.6625		DuPage County: Police, F1 (Wheaton)
o ?	854.9625		DuPage County: Police, F2 (Wheaton)
h KQ7098	472.6875		DuPage Pump Inc (Lemont)
h KBQ917	475.6875	mo	"
h WGQ45	475.6875	mo	"
h WGQ46	475.6875	mo	"
h KSK361	152.4800	pg	DuPont, paging, cw id (Seneca)
h KCC773	462.8250	pg	Edward Hospital, paging, cw id = KCC77 (Naperville)
h KVK257	471.5625		Electrocom Inc, tone only paging, voice tape id (Dundee)
h KVK259	471.6125		Electrocom Inc, voice tape id (Dundee)
h ?	160.3500		Elgin Joliet & Eastern, RR, Road & Dispatcher (Chicago Hts)
h KLD150	471.9875		Elgin Lock & Key Co (Elgin)
h WGH243	471.9875		"
h WZH991	471.9875		"
h KNDF567	151.9250		Elgin Sheet Metal Co (Elgin)
h KSA463	152.2700		Elgin Yellow & Checker Cab, dispatcher (Elgin)
h KDH591	154.4900		Elmhurst Chicago Stone, base id="Warrenville" (Warrenville)
h KG2950	154.4900		"
o KQL211	154.5400		Elmhurst College (Elmhurst)
o KFZ492	151.7450		Elmhurst Community School Distr 205 (Elmhurst)
o KWB655	151.7750		Evanston's Best Taxi (Evanston)
o KXT820	464.9750		Evergreen Plaza, shopping center (Evergreen Park)
h KNCV943	461.6750		Everything Automotive, id="EA#" (Batavia)
h KXZ351	461.1500		Faerber Electric, "quick call" type signaling (Elk Grove)
h WAU575	466.1500	mo	"

Business, Etc. continued

h KAB7209	462.6000		Fast Messenger Service (Chicago)
h WLL54	463.3500		Fayette Seltzer Co, soda machine repair (Burr Ridge, Hinsdale)
h KO7780	468.3500	mo	"
h KNBE453	464.4750		Fireside West Devel/aka Hilton, Lisle, hotel (Lisle)
h KSA376	152.3900		Flash Cab, dispatcher (Chicago)
h KSA376	157.6500		Flash Cab, mobiles (Chicago)
h KUV431	151.8350		Fontana Motor Sales, tow trucks (Warrenville)
o ?	154.5700	2w	Ford City Shopping Center (Chicago)
o ?	464.9750		"
h KMDK290	151.6550		Fox Valley Drywall (Aurora)
h KZF575	464.6750		Fox Valley Mall, shopping center security, simplex (Aurora)
h KNCM376	151.9250		Fox Valley Security, not related to the Fox V mall (Aurora)
h KEF505	151.5200		Frieders, Al G (Naperville)
h KNEQ489	152.9750		Frieders, Carl F (Aurora)
h KLZ774	152.9750		Frieders, Carl F, farm related (Aurora)
h KFZ764	153.0050		Frieders, Ronald Farm (Naperville)
h KCU839	151.8950		Fry, John Allen/aka Fry Builders, expired lic (Naperville)
h KNBH394	150.8900		Fullers Svc Center (Hinsdale)
h KYT962	154.5150		Gallant Homes, Inc (Naperville)
o KRG301	154.5150		General Mills Inc (W Chicago)
h KJW371	158.4600	pg	General Motors Research/Electromotive, paging, cw id (McCook)
h KCX744	151.6850		Glen Ellyn Limo (Glen Ellyn)
h KCX770	151.6850		Glen Ellyn Limo (Schaumburg)
o KMF897	151.6850		Glenbrook Patrol Svc, security svc (Glenview)
h KQV398	151.7750		Glendale Hts Community Hospital, paging, cw id (Glendale Hts)
o ?	151.6250	it	Goodyear Blimp, sports, entertainment
h KNCM919	461.7750		Greenshield Security, id="Charlie#" (Seward Towns)
h KFZ765	150.8900		H & H Arco, tow trucks (Naperville)
h WDT291	462.0750		Hach, William & Associates, id="WH#" (Bensenville)
h KQH481	462.0750		Hach, William & Associates, id="WH#" (Chicago)
h KCU769	35.1800		Hacker, William M (Plainfield)
h KCQ996	154.5150		Haggerty, Jim Door Svc (St Charles)
o WQX308	465.0000	pg	Hamilton Hotel/aka Stouffer Hotel, paging (Itasca)
o WQX308	461.7125		Hamilton Hotel/aka Stouffer Hotel, security (Itasca)
o WQX308	462.0250		Hamilton Hotel/aka Stouffer Hotel, vans (Itasca)
h KZP210	151.5200		Hanson's Excavat aka/Bill Hanson, Laverne Weiland (Elburn)
h KSR383	154.5400		Harco Leasing Co (Melrose)
o KSZ331	458.9000	mo	Harper College, security parking lot (Prospect Hts)
h KEF454	154.5150		Hawks Auto Parts (Elgin)
o KNAI807	464.8750		Hawthorn Center, shopping center (Vernon Hills)
h KNE75	472.1625		Henry A. Pepper, limo svc (W. Dundee)
o KOB508	154.6250	pg	Hillary's Water Tower Place, restaurant, paging (Chicago)
o KZV402	461.0500		Hilton, Arlington Park, hotel (Arlington Hts)
h KNEZ976	464.4750		Hilton, Lisle, hotel aka/Fireside West Devel, paging (Lisle)
o KBF336	151.9550		Hilton, North Shore, hotel (Skokie)
o KNAZ828	151.9250		Holiday Inn, hotel (Des Plaines)
o KVM467	151.9250		"
h KZQ930	151.9550		Holiday Inn, hotel (Oak Brook Terrace)
o KZ9137	461.3000		Holiday Inn, hotel aka/Forseen Inc (Mundelein, Rolling Meadows)
o KZZ949	461.3000		"
o WWA94	461.3000		"
o WWA95	461.3000		"
o KXO751	461.1000		Holmes Security (Franklin Park)
o KAC4308	462.5750		Holy Family Hospital, security (Des Plaines)
o KFL759	460.9250		Honeywell Protection Svcs (Elk Grove Village)
o KJV986	463.5250		Horizon Cab (Rosemont)
o KNCU560	463.5250		"
o KBH425	464.4250		Howard Johnsons Hotel (Schiller Park)
h KSU361	464.5750		Hyatt Regency O'Hare hotel, housekeep, vans, paging, cw id (Ros
o ?	465.0000	pg	Hyatt Watertower, hotel (Chicago)
h KXC667	151.8650		IBM R & D, field engineer paging (Addison)
h KJD665	151.8650		IBM R & D, field engineer paging (Batavia)
h KJW214	157.7400	pg	IBM R & D, field engineer paging (Chicago)
h KLF326	152.4800	pg	IBM R & D, field engineer paging, voice id (Chicago)
h KXY396	461.3250		"
h KG2769	466.3250	mo	"
h WFE555	466.3250	mo	"
h KNBC810	462.7750	pg	IBM R & D, field engineer paging, voice id (Chicago, Addison)
h KLC344	151.8650		IBM R & D, field engineer paging, voice id (Homer Twp)
h WQA618	151.8050		IBM R & D, field engineer paging, voice id (Oak Lawn)
h KXE652	152.4800	pg	IBM R & D, field engineer paging, voice id (Rolling Meadows)
h KFY212	151.9250		IBM R & D, field engineer paging, voice id (Springfield)
o KZA332	44.9200		IL: Dept of Nuclear Safety
h KQO359	453.7000		IL: IDOT, 'FE' channel, field supervisors
h ?	47.3000		IL: IDOT, Cook/DuPage/Kane/Will, PL2Z, dispatcher
o ?	47.3800		IL: IDOT, Cook/DuPage/Kane/Will, PL2Z, mobiles
o ?	47.1400		IL: IDOT, DeKalb & northwest counties, PL2Z, dispatcher
o ?	47.3800		IL: IDOT, DeKalb & northwest counties, PL2Z, mobiles

NEW!

Regency®

Scanners

Communications Electronics,™ the world's largest distributor of radio scanners, introduces new models with special savings on all radio scanners. Chances are the police, fire and weather emergencies you'll read about in tomorrow's paper are coming through on a scanner today.

We give you excellent service because CE distributes more scanners worldwide than *anyone* else. Our warehouse facilities are equipped to process thousands of scanner orders every week. We also export scanners to over 300 countries and military installations. Almost all items are **in stock** for **quick shipment**, so if you're a person who prefers fact to fantasy and who needs to know what's *really* happening around you, order your radio today from CE.

NEW! Regency® MX5000-E

List price $599.95/**CE price $359.00**

Multi-Band, 20 Channel • No-crystal scanner Search • Lockout • Priority • AC/DC Selectable AM-FM modes • LCD display World's first continuous coverage scanner

Frequency range: 25-550 MHz. continuous coverage.

Never before have so many features come in such a small package. The *Regency* MX5000 mobile or home scanner has continuous coverage from 25 to 550 MHz. That means you can hear CB, Television audio, FM broadcast stations, all aircraft bands including military and the normal scanner bands, all on your choice of 20 programmable channels.

Regency® MX3000-E

List price $319.95/**CE price $179.00**

6-Band, 30 Channel • No-crystal scanner Search • Lockout • Priority • AC/DC

Bands: 30-50, 144-174, 440-512 MHz.

The *Regency* Touch MX3000 provides the ease of computer controlled, touch-entry programming in a compact-sized scanner for use at home or on the road. Enter your favorite public service frequencies by simply touching the numbered pressure pads. You'll even hear a "beep" tone that lets you know you've made contact.

In addition to scanning the programmed channels, the MX3000 has the ability to search through as much as an entire band for an active frequency. The MX3000 includes channel 1 priority, dual scan speeds, scan or search delay and a brightness switch for day or night operation.

Regency® Z30-E

List price $279.95/**CE price $169.00**

6-Band, 30 Channel • No-crystal scanner

Bands: 30-50, 144-174, 440-512 MHz.

Cover your choice of over 15,000 frequencies on 30 channels at the touch of your finger.

Regency® C403-E

List price $99.95/**CE price $59.00**

5-Band, 4 Channel • Crystal scanner Channel indicator LED • AC only • Low cost

Bands: 30-50, 148-174, 450-470 MHz.

Regency's basic scanner, the C403 gives you the excitement of police, fire and emergency calls at a budget price. It can tune in to any of five public service bands and brings the signal in loud and clear...on any of four possible channels. It comes with detachable telescope antenna and AC power cord. Order one crystal certificate for each channel you want to receive.

Regency® HX1000-E

List price $329.95/**CE price $209.00**

6-Band, 30 Channel • No Crystal scanner Search • Lockout • Priority • Scan delay Sidelit liquid crystal display • Digital Clock

Frequency range: 30-50, 144-174, 440-512 MHz.

The new handheld *Regency* HX1000 scanner is fully keyboard programmable for the ultimate in versatility. You can scan up to 30 channels at the same time. When you activate the priority control, you automatically override all other calls to listen to your favorite frequency. The LCD display is even sidelit for night use. A die-cast aluminum chasis makes this the most rugged and durable hand-held scanner available. There is even a backup lithium battery to maintain memory for two years. Includes wall charger, carrying case, belt clip, flexible antenna and nicad battery. Order your *Regency* HX1000 now.

Regency® R106-E

List price $159.95/**CE price $92.00**

5-Band, 10 Channel • Crystal scanner • AC/DC

Frequency range: 30-50, 146-174, 450-512 MHz.

A versatile scanner, The *Regency* R-106 is built to provide maximum reception at home or on the road. Rugged cabinet protects the advanced design circuitry allowing you years of dependable listening.

NEW! Regency® R1050-E

List price $179.95/**CE price $109.00**

6-Band, 10 Channel • Crystalless • AC only

Frequency range: 30-50, 144-174, 440-512 MHz.

Now you can enjoy computerized scanner versatility at a price that's less than some crystal units. The *Regency* R1050 lets you in on all the action of police, fire, weather, and emergency calls. You'll even hear mobile telephones.

Programming the R1050 is easy. Merely touch the keyboard and enter any of over 15,000 frequencies on your choice of 10 channels.

Regency® HX650-E

List price $129.95/**CE price $79.00**

5-Band, 6 Channel • Handheld crystal scanner

Bands: 30-50, 146-174, 450-512 MHz.

Now you can tune in any emergency around town, from wherever you are, the second it happens. Advanced circuitry gives you the world's smallest scanner. Our low CE price includes battery charger/A.C. adapter.

NEW! Regency® HX-650P-E

List Price $189.95/**CE price $104.00**

Now, Communications Electronics offers a special packaged price on the *Regency* HX-650 scanner and the following items for only $104.00. You get the *Regency* HX-650 scanner, a set of 4 AAA ni-cad batteries, the MA-506 carrying case, six crystal certificates, AC adapter/charger and flexible rubber antenna for only $104.00 per package plus $10.00 shipping/handling. To order this special package, use CE special order number HX-650P-E.

QUANTITY DISCOUNTS AVAILABLE

Order two scanners at the same time and deduct 1%, for three scanners deduct 2%, four scanners deduct 3%, five scanners deduct 4% and six or more scanners purchased at the same time earns you a 5% discount off our super low single unit price.

NEW! Regency® MX7000-E

List price $699.95/**CE price $449.00**

10-Band, 20 Channel • Crystalless • AC/DC

Frequency range: 25-550 MHz. continuous coverage and 800 MHz. to 1.2 GHz. continuous coverage

In addition to normal scanner listening, the MX7000 offers CB, VHF, and UHF TV audio, FM Broadcast, all aircraft bands (civil and military), 800 MHz communications, cellular telephone, and when connected to a printer or CRT, satellite weather pictures.

The *Regency* Touch MX7000 provides the ease of computer controlled, touch-entry programming in a compact-sized scanner for use at home or on the road. Enter your favorite frequencies by simply touching the numbered pressure pads. You'll even hear a "beep" tone that lets you know you've made contact.

In addition to scanning the programmed channels, the MX7000 has the ability to search through as much as an entire band for an active frequency. When a call is received, the frequency will appear on the digital display.

Regency® Z10-E

List price $239.95/**CE price $138.00**

6-Band, 10 Channel • No-crystal scanner Priority control • Search/Scan • AC/DC

Bands: 30-50, 140-174, 440-512 MHz.

Cover your choice of over 15,000 frequencies on 10 channels at the touch of your finger.

OTHER RADIO ACCESSORIES

B-4-E 1.2 V AAA Ni-Cad batteries (set of four) $9.00
A-135C-E Crystal certificate $3.00
A60-E Magnet mount mobile antenna $35.00
A70-E Base station antenna $35.00
Add $3.00 shipping for all *accessories* ordered at the same time. Add $3.00 shipping per scanner antenna.

BUY WITH CONFIDENCE

To ***get the fastest delivery from CE*** of any scanner, send or phone your order directly to our Scanner Distribution Center.™ Be sure to calculate your price using the CE prices in this ad. Michigan residents please add 4% sales tax or supply your tax I.D. number. Written purchase orders are accepted from approved government agencies and most well rated firms at a 10% surcharge for net 10 billing. All sales are subject to availability, acceptance and verification. All sales on accessories are final. Prices, terms and specifications are subject to change without notice. All prices are in U.S. dollars. Out of stock items will be placed on backorder automatically unless CE is instructed differently. A $5.00 additional handling fee will be charged for all orders with a merchandise total under $50.00. Shipments are F.O.B. Ann Arbor, Michigan. No COD's. Most products that we sell have a manufacturer's warranty. Free copies of warranties on these products are available prior to purchase by writing to CE. International orders are invited with a $20.00 surcharge for special handling *in addition* to shipping charges. Non-certified checks require bank clearance.

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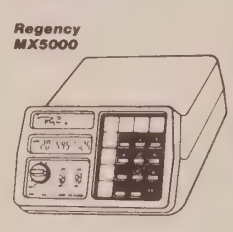

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PAID ADVERTISEMENT

NEW!

uniden®

Bearcat®

Products

Communications Electronics,™ the world's largest distributor of radio scanners, is pleased to announce that *Bearcat* brand scanner radios have been acquired by Uniden Corporation of America. Because of this acquisition, Communications Electronics will now carry the complete line of Uniden *Bearcat* scanners, CB radios and Uniden *Bandit*™ radar detectors. To celebrate this acquisition, we have special pricing on the Uniden line of electronic products.

Bearcat® 300-E

List price $549.95/**CE price $339.00**

7-Band, 50 Channel • Service Search • No-crystal scanner • AM Aircraft and Public Service bands. • Priority Channel • AC/DC

Bands: 32-50, 118-136 AM, 144-174, 421-512 MHz.

The *Bearcat* 300 is the most advanced automatic scanning radio that has ever been offered to the public. The *Bearcat* 300 uses a bright green fluorescent digital display, so it's ideal for mobile applications. The *Bearcat* 300 now has these added features: Service Search, Display Intensity Control, Hold Search and Resume Search keys, Separate Band keys to permit lock-in/lock-out of any band for more efficient service search.

Bearcat® 20/20-E

List price $449.95/**CE price $269.00**

7-Band, 40 Channel • Crystalless • Searches AM Aircraft and Public Service bands • AC/DC Priority Channel • Direct Channel Access • Delay

Frequency range 32-50, 118-136 AM, 144-174, 420-512 MHz.

Find an easy chair. Turn on your *Bearcat* 20/20 and you're in an airplane cockpit. Listening to all the air-to-ground conversations. Maybe you'll pick up an exciting search and rescue mission on the Coast Guard channel. In a flash, you're back on the ground listening as news crews report a fast breaking story. Or hearing police and fire calls in your own neighborhood, in plenty of time so you can take precautions. You can even hear ham radio transmission, business phone calls and government intelligence agencies. Without leaving your easy chair. Because you've got a *Bearcat* 20/20 right beside it.

The *Bearcat* 20/20 monitors 40 frequencies from 7 bands, including aircraft. A two-position switch, located on the front panel, allows monitoring of 20 channels at a time.

Bearcat® 210XL-E

List price $349.95/**CE price $209.00**

6-Band, 18 Channel • Crystalless • AC/DC

Frequency range 32-50, 144-174, 421-512 MHz.

The *Bearcat* 210XL scanning radio is the second generation scanner that replaces the popular *Bearcat* 210 and 211. It has almost twice the scanning capacity of the *Bearcat* 210 with 18 channels plus dual scanning speeds and a bright green fluorescent display. Automatic search finds new frequencies. Features scan delay, single antenna, patented track tuning and more.

Bearcat® 260-E

List price $399.95/**CE price $249.00**

8-Band, 16 Channel • Priority • AC/DC

Frequency range 30-50, 138-174, 406-512 MHz.

Keep up with police and fire calls, ham radio operators and other transmission while you're on the road with a *Bearcat* 260 scanner. Designed with police and fire department cooperation, its unique, practical shape and special two-position mounting bracket makes hump mounted or under dash installation possible in any vehicle. The *Bearcat* 260 is so ruggedly built for mobile use that it meets military standard 810c, curve y for vibration rating. Incorporated in its rugged, all metal case is a specially positioned speaker delivering 3 watts of crisp, clear audio.

NEW! Bearcat® 201-E

List price $279.95/**CE price $179.00**

9-Band, 16 Channel • Crystalless • AC only Priority • Scan Delay • One Key Weather

Frequency range 30-50, 118-136 AM, 146-174, 420-512 MHz.

The *Bearcat* 201 performs any scanning function you could possibly want. With push button ease, you can program up to 16 channels for automatic monitoring. Push another button and search for new frequencies. There are no crystals to limit what you want to hear.

NEW! Bearcat® 180-E

List price $249.95/**CE price $149.00**

8-Band, 16 Channel • Priority • AC only

Frequency range: 30-50, 138-174, 406-512 MHz.

Police and fire calls. Ham radio transmissions. Business and government undercover operations. You can hear it all on a *Bearcat* 180 scanner radio. Imagine the thrill of hearing a major news event unfold even before the news organizations can report it. And the security of knowing what's happening in your neighborhood by hearing police and fire calls in time to take precautions. There's nothing like scanning to keep you in-the-know, and no better way to get scanner radio performance at a value price than with the *Bearcat* 180.

Bearcat® 100-E

The first no-crystal programmable handheld scanner.

List price $449.95/**CE price $234.00/*SPECIAL!***

8-Band, 16 Channel • Liquid Crystal Display Search • Limit • Hold • Lockout • AC/DC

Frequency range: 30-50, 138-174, 406-512 MHz.

The world's first no-crystal handheld scanner has compressed into a 3" x 7" x 1¼" case more scanning power than is found in many base or mobile scanners. The *Bearcat* 100 has a full 16 channels with frequency coverage that includes all public service bands (Low, High, UHF and "T" bands), the 2-Meter and 70 cm. Amateur bands, *plus* Military and Federal Government frequencies. It has chrome-plated keys for functions that are user controlled, such as lockout, manual and automatic scan. Even search is provided, both manual and automatic. Wow...what a scanner!

The *Bearcat* 100 produces audio power output of 300 milliwatts, is track-tuned and has selectivity of better than 50 dB down and sensitivity of 0.6 microvolts on VHF and 1.0 microvolts on UHF. Power consumption is kept extremely low by using a liquid crystal display and exclusive low power integrated circuits.

Included in our low CE price is a sturdy carrying case, earphone, battery charger/AC adapter, six AA ni-cad batteries and flexible antenna. The *Bearcat* 100 is in stock for quick shipment, so order your scanner today.

Bearcat® DX1000-E

List price $649.95/**CE price $489.00**

Frequency range 10 kHz to 30 MHz.

The *Bearcat* DX1000 shortwave radio makes tuning in London as easy as dialing a phone. It features PLL synthesized accuracy, two time zone 24-hour digital quartz clock and a built-in timer to wake you to your favorite shortwave station. It can be programmed to activate peripheral equipment like a tape recorder to record up to five different broadcasts, any frequency, any mode, while you are asleep or at work. It will receive AM, LSB, USB, CW and FM broadcasts.

There's never been an easier way to hear what the world has to say. With the *Bearcat* DX1000 shortwave receiver, you now have direct access to the world.

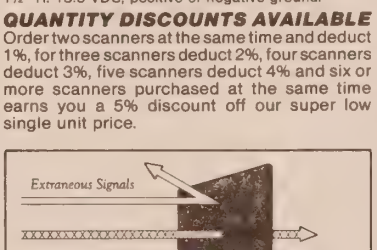
Uniden® PC22-E

List price $159.95/**CE price $99.00**

The *Uniden* PC22 is a 40 channel AM remote mobile CB radio. It's the answer for today's smaller cars which don't always provide adequate space for mounting. Since all the controls are on the microphone, you can stash the "guts" in the trunk. The microphone has up/down channel selector, digital display, TX/RX indicator and external speaker jack. Dimensions: 5¾" W x 7⅞" D x 1½" H. 13.8 VDC, positive or negative ground.

QUANTITY DISCOUNTS AVAILABLE

Order two scanners at the same time and deduct 1%, for three scanners deduct 2%, four scanners deduct 3%, five scanners deduct 4% and six or more scanners purchased at the same time earns you a 5% discount off our super low single unit price.



Both Bandit™ radar detectors feature E.D.I.T.,™ the Electronic Data Interference Terminator that edits-out false alarm signals.

Uniden® PC33-E

List price $59.95/**CE price $44.00**

The *Uniden* PC33 boasts a super-compact case and front-panel mike connector to fit comfortably in today's smaller cars. *Controls:* Power & Volume, Squelch; *Switches:* ANL. Other features of the PC33 include Graduated LED "S"/RF Meter, Digital channel indicator. Dimensions: 6" W x 6" D x 1⅞" H. ±13.8 VDC.

Uniden® PC55-E

List price $89.95/**CE price $59.00**

The full featured *Uniden* PC55 front-panel mike connector makes installation easier when space is a factor. It has ANL, PA-CB, Channel 9 and RF Gain switches. LED "S"/RF meter, TX lite, PA & external speaker jacks. Dimensions: 6" W x 6" D x 1⅞" H. ±13.8 VDC.

Bandit™ Radar Detectors

Now that everyone else has taken their best shot at radar detection, the Uniden Bandit™ has done them one better...with E.D.I.T.,™ the Electronic Data Interference Terminator that actually edits-out false alarm signals.

The Bandit 55, features a convenient brightness/dimmer control for comfortable day or night driving, plus a handy highway/city control for maximum flexibility wherever you drive. The Bandit 95 Remote, is a two-piece modular unit that lets you mount the long-range radar antenna behind the grill, out of view. The ultra-compact control unit can then be inconspicuously tucked under the dash or clipped to the visor. Order **Bandit 55-E** for $119.00 each or the **Bandit 95-E Remote** for $139.00 each.

OTHER RADIOS AND ACCESSORIES

FB-E-E Frequency Directory for Eastern U.S.A. $12.00
FB-W-E Frequency Directory for Western U.S.A. ... $12.00
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PAID ADVERTISEMENT

CANADA

Send Canadian frequency information, radio system details and other information relating to Canadian monitor radio listening and questions to:

Rob Berezowski, 211 Costigan Bay, Saskatoon, Saskatchewan, S7J 3P4 Canada

Well, another month rolls by as I once again say Welcome to the Canada column. I've been pretty busy with a lot of things here, so the replies to letters are a bit slow. However, not to worry because I will answer them all.

First up this month is some information from an anonymous member. This information will be of particular interest to those members in or near the Vancouver area. This member passes on that the Federal Oceans and Fisheries Department (Inspection and Enforcement Teams) operate on the following:

Vancouver District Repeater	143.145/148.195in
Vancouver Island Repeater	143.250/148.250in
	141.270

Our friend also passes on that Vancouver area Emergency Health Services (EHS) have been heard on 142.155/138.135in with test phone patches between ambulances and the dispatcher. As of this time there is no operational use of the system. Any information other members can supply on the use of this frequency (along with any other such phone patches for EHS) will be most appreciated. I know the EHS ambulance at Invermere, BC has a standard VHF mobile telephone, but maybe this has changed because I have not been there for several months.

Our friend also asks if anyone has information on Unit Id and other frequency info. for Oceans & Fisheries and B.C. Forest Service. Since I have almost no information myself, our friend and I would most appreciate any information readers can supply. Please send it to my address above and I will pass it on to our mystery member. Thanks again to all.

The next item comes from Gilles (CAN-101). He passes on the following:

Quebec Ministry of Public Works	Quebec	XMX	443	171.450
	Montreal	XMX	534	"
	Hull	XMY	937	"
	Ile d'Orleans	XMX	330	158.490
	Montreal	XMY	722	139.245
	"	XMY	754	143.535
	"	XMY	722	141.885
Quebec Office of Construction	Province-wide			462.600
	Joliette	CJK	428	462.475
	St-Jerome	XOP	776	"
	Chicoutimi	XOP	460	451.350
				451.3875
Public Works Canada	Ottawa	XLI	607	172.410
		XLI	609	163.740
				163.680

Thanks Gilles, and I hope you will keep in touch with more info.

Next is some material from Bruce (CAN-019). Along with a most interesting letter comes two items of special interest. The first is a copy of an article that appeared in the Toronto Globe and Mail. This article concerns the new OPP radio system. A duplicate copy was sent by Jerry (CAN-064) (Hi Jerry!). The article is dated June 9/84. I have enclosed a copy with this column.

The second enclosure from Bruce is a chart showing coverage for Bell Canada Mobile Telephones in Southern Ontario. This includes 150 and 450 MHz mobile phones. Unfortunately it is also time for everyone to buy a microscope. What I mean by that is that the chart has some very fine print in it and I do not think it can reproduce well in the column. However if any member desires a copy, I can supply a copy for a SASE. Thanks Bruce.

Inquest urges police radio system completion

Special to The Globe and Mail

GODERICH, Ont. — The Ontario Government should try to speed up the installation of a province-wide radio system to allow direct communication between municipal and provincial police cruisers, a coroner's jury recommended yesterday.

The recommendation came after a three-day inquest into the death of Bruce Crew, a Goderich provincial police officer, in September, 1983. Constable Crew, 47, died when a Goderich town police cruiser crested a hill at 100 kilometres an hour and crashed into his car.

There was no direct communication between the cruisers because provincial police cars are not equipped to use a common, high-frequency band used for emergency purposes by 101 of the province's 127 municipal police departments.

Goderich Police Constable Peter Mason had chased a suspect's car for 20 kilometres at speeds exceeding 165 kilometres an hour, he was not informed that Constable Crew had stopped the car until the message was relayed by a provincial police dispatcher just as he came over the top of the hill.

A new, computer-controlled system to allow provincial police vehicles to communicate directly with municipal police cars was to be operational by December, 1983, but has been delayed.

Inspector Earl Gibson of the provincial police telecommunications team testified that the installation cannot be completed before the end of 1987 because only 14 of 136 radio towers have been erected.

The capacity of the Canadian tower industry allows only about 40 towers to be built each year.

A field test of the system will begin next month in London, Ont.

The jury recommended "that all efforts to complete the provincial common radio network be given the highest priority and, if possible, be expedited."

The jury also urged that high-speed chase training and regular re-training be mandatory for all police.

High-speed pursuit training is required for recruits at the Ontario Police College in Aylmer but re-training is not obligatory, a college spokesman said.

Russell (CAN-098) has sent in quite a lengthy list for the Ontario area. I will include some of it in this column, with the rest appearing in the next column.

Ontario Provincial Police	St Catherines	XJB 50	41.980/
			42.060/ 42.220
	Fonthill	XJB 73	42.060/ 42.220
			140.970
			141.435/139.155in
			141.510/139.425in
			143.655
			414.690/139.455
Niagara Regional Police	Fort Erie	XJF 929	141.735/138.750
	Welland	XJF 931	142.230/138.210
	St Catherines	XJF 933	142.410/138.555
	Niagara Falls	XJF 924	142.545/138.525
	Grimsby	XJF 934	142.575/138.210
Niagara Parks Police	Niagara Falls	XLS 95	159.270/159.270
Niagara Falls Fire Dept.		XJF 364	159.390
		XJF 300	469.425
Ont. Provincial Ambulance	St Catherines	XMI 923	155.130/149.170in
			150.010
			414.2625
	Fonthill	XMI 924	149.440/149.170
			149.830
			150.100
			155.130
			414.2625
	Niagara Falls	XMI 925	149.440/149.170
			149.605/
			149.830
			150.100
			155.130
			413.7625/418.7625
			413.8375/418.8375
			414.2625

Canada continued

Port Colborne	XMI 927	149.440/149.170 149.830 155.130 414.2625
Welland	XMI 928	149.830 155.130 414.2625
Grimsby	XMI 929	149.440/149.170 414.2625
Fort Erie	XNE 614	149.440/149.170 149.605 149.830 155.130

Also included with this column is another installment from Guy (CAN-031). With that I will close this column for another month. Until next time, keep in touch and take care.

From GUY (CAN 031)

RCMP Frequencies in use in NEWFOUNDLAND and LABRADOR

LABRADOR

154.890	Lab - mobile
154.950	Happy Valley, Lab - mobile
154.950 / 155.670	Labrador City, Goose Bay
154.950 / 155.700	North West River
155.070	Lab - mobile
155.190	Lab - mobile
155.190 / 155.790	Lab - mobile
155.310	Goose Bay - mobile, Lab - mobile
155.460	Goose Bay - mobile, Lab - mobile
155.580 / 154.890	Goose Bay - mobile
155.640 / 155.070	Goose Bay - mobile
155.670	Happy Valley, Labrador City, Goose Bay, North West River, All Cda - mobile
155.700 / 154.950	Goose Bay
155.820 / 154.980	Lab - mobile
413.0625	Lab - mobile
413.2875	Lab - mobile
456.8375	Lab - mobile, All Cda - mobile
155.640	All Cda - mobile

NEWFOUNDLAND

49.120	Freshwater, Nfld - mobile
138.015 / 142.005	Mt St Anne
138.050 / 142.075	Marystown
138.075 / 142.065	Peters River, Gambo, Clarenville, Ferryland
138.080 / 141.830	Harricott, Kenmount Hill
141.210 / 148.975	New Chelsea, Kenmount Hill
141.830 / 138.080	Freshwater
142.005 / 138.015	Terrenceville
142.065 / 138.075	New Chelsea, Peters River, Ferryland
142.075 / 138.050	Freshwater
143.085 / 148.075	Peters River, Kenmount Hill
143.235 / 148.225	Kenmount Hill
148.075 / 143.085	Harricott
148.225 / 143.325	Ferryland
148.975 / 141.210	New Chelsea
154.890 / 155.580	Stephenville, Piccadilly, Glover Town, Burin, Rocky Harbour, Stephenville Crossing, Bonavista, St Georges, Grand Bank, St Lawrence
154.950	Corner Brook, Glover Town, Twillingate, Clarenville Channel, Springdale, St Georges, Stephenville
154.950 / 155.670	Whitbourne, Harbour Grace, Gander, Baie Verte
154.950 / 155.700	Grand Falls, Ferryland, Placentia, Botwood, Wesleyville, Deer Lake, Lewisport

Canada continued

154.980 / 155.820	Trepassey, Twillingate, Fogo, Channel, Buchans, Clarenville, Lewisport
155.070 / 155.640	Whitbourne, Harbour, Grace, Fort Pepperell, Gander, St John's, Piccadilly, Bay Roberts, Placentia, Harbour Breton, aie Verte, Bay d'Espoir, Wesleyville, Holyrood, Burin, Stephenville Crossing, Bonavista, Ferryland, Bell Island, Springdale, St Georges, Grand Bank, Stephenville
155.130	Placentia, Kenmount Hill
155.190	Nfld - mobile
155.190 / 155.790	Nfld - mobile
155.310	Grand Falls, Corner Brook, Trepassey, Gander, Ferryland, St John's, Bay Roberts, Placentia, Harbour Breton, Glover Town, Twillingate, Fogo, Buchans, Bay d'Espoir, Wesleyville, Clarenville, Bell Island, Springdale, Botwood, Lewisport, Grand Bank, Burin, St Lawrence
155.460	Grand Falls, Corner Brook, Trepassey, Gander, Fort Pepperell, Ferryland, St John's, Fogo, Bay Roberts, Placentia, Harbour Breton, Glover Town, Twillingate, Buchans, Bay d'Espoir, Wesleyville, Clarenville, Bell Island, Burin, Springdale, Botwood, Lewisport, Grand Bank, St Lawrence
155.580 / 154.890	New Chelsea, Pine Tree, Gros Morne, Harricott, Mt St Anne, Gull, Gambo, Marystown, St John's - mobile
155.640 / 155.070	Sheffield Lake, Peters River, Gander, St Albans, Marystown, Codroy Pound, Kenmount Hill, St John's - mobile
155.670	Roddickton, Stephenville, Whitbourne, Trepassey, Harbour Grace, Grand Falls, Corner Brook, Fort Pepperrell, Gander, St John's, Piccadilly, Mary's Harbour, Ferryland, Bay Roberts, Fogo, Placentia, Harbour Breton, Glover Town, Channel, St Anthony, Port Saunders, Twillingate, Buchans, Baie Verte, Clarenville, Rocky Harbour, Botwood, Bay d'Espoir, Wesleyville, Holyrood, Bonavista, Stephenville Crossing, Bell Island, Springdale, Deer Lake, St Georges, Lewisport, Freshwater, Grand Bank, Burin, St Lawrence, All Cda - mobile
155.670 / 154.950	Sheffield Lake, Mt St Anne, Codroy Pound
155.670 / 155.630	Flowers Cove
155.700 / 154.950	Corner Brook, Welseyville, Redcliff, Gambo, Ferryland, Freshwater, St John's - mobile
155.820 / 154.980	Table Mountain, Terrenceville, Peters River, Miller Town, Long Point, Clarenville, Kenmount Hill
159.330	Kenmount Hill
168.450 / 164.430	Fort Pepperrell
410.3125 / 415.3125	Codroy Pound
410.6125 / 415.6125	Corner Brook
413.0625	Gander
413.2875	Gander
415.0125 / 410.0125	Gros Morne, Sheffield Lake
415.3125 / 410.3125	Table Mountain
451.5125 / 456.5125	Pine Tree
415.6125 / 410.6125	Pine Tree
456.5125 / 451.5125	Codroy Pound
462.6500 / 467.6625	Terrenceville, Freshwater
462.6500 / 469.6500	Fort Pepperrell
467.6625 / 462.6500	Terrenceville, Freshwater
469.6500 / 462.6500	Kenmount Hill
456.8375	All Cda - mobile
155.640	All Cda - mobile

COMMUNICATIONS PROFILE

Cliff Polkinghorn, 14310 Acacia St., San Leandro, CA 94579

This column is for special projects that explain various radio systems in detail. Frequencies and radio codes of not only municipal agencies and certain federal government agencies may be listed, but also large businesses and corporations. The contribution must be lengthy enough that publishing it in one of the regular columns would not be possible. If you are inclined to submit a report as the one below appears, please follow No. 8 in the inside front cover of the Newsletter.

WELCOME TO SEPTEMBER 1984------

Communications Profile this month will deal with N.A.S. MOFFETT FIELD, CALIF. I sincerly apologize to all of you from other states, for having so much CALIF. stuff in this column, BUT---I am receiving absolutely NO MATERIAL from outside of CALIF., as a matter of fact, I'm not receiving any material from CALIF. members either. The past couple months have been of my own doing, along with the help of friends mentioned. SO LETS GET WITH IT--- This organization didn't complete 100 issues, just to stop. It's going to take help from all of us (including you) to reach the 200 issue point.

---------- ON TO MOFFETT ----------

NAVAL AIR STATION MOFFETT FIELD FIRE

N.A.S. MOFFETT FIELD IS A CATAGORY #4 AIRFIELD. (FYI--NAS ALAMEDA IS A CATAGORY #3, and NAS BERMUDA IS A CATAGORY #5). There are only three (3) Naval Air Stations with a catagory #5, all are outside the UNITED STATES. The catagory is dependent on how large the aircraft are that land at the field on a regular basis. (Catagory #5 is for the big stuff like C-5, L-1011, 747 etc.) MOFFETT AIRCRAFT INCLUDE--P-3 ORIONS, C-130 HERCULES, and 1 only C-141 N.A.S.A.)

N.A.S. MOFFETT has a day time population of about 50,000 (including N.A.S.A. AMES RESEARCH) and a night time population of about 7,500.

The FIRE DEPARTMENT has a total compliment of 50 men (civilian government employees---THE NAVY RELINQUISHED FIREFIGHTING DUTIES IN 1976). It works two (2) 72 hour week, shifts. BREAKDOWN OF COMMAND IS AS FOLLOWS.

1 ea. FIRE CHIEF
2 ea. ASSISTANT CHIEFS (1 of which is for fire prevention)
2 ea. BATTALION CHIEFS
8 ea. CAPTAINS
4 ea. FIRE INSPECTORS
2 ea. DISPATCHERS

MOFFETT has only one fire station, located at the ramp side, north of HANGER ONE. It is broken down into two (2) sections. One structure protection, and ONE CRASH CREW. Both sections are cross trained, and rotate very frequently, almost every shift (24 hr. ON, and 24 HR. OFF)

EQUIPMENT AT THE STATION IS AS FOLLOWS:

CRASH HOUSE SECTION:

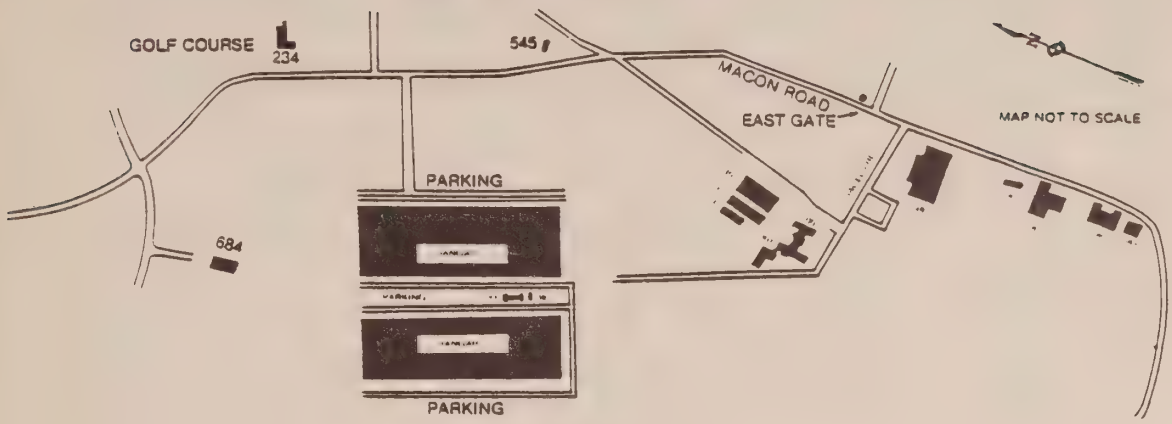
3ea. P4A (1500 gallon water, 180 gallon AFFF(foam)
ID# = 32 34 and 36
1ea. VAN--COMMUNICATIONS UNIT ID# 23
1ea. QUICK ATTACK dual agent rescue unit (foam and PKP)
ID# 33
1ea. SMALL MINI TYPE PICKUP--FIRE CHIEFS VEHICLE
ID# 21

STRUCTURE HOUSE:

1ea. RED PUMPER--ID# 22
2ea. YELLOW PUMPERS--ID# 20 and 24
1ea. YELLOW PICKUP (UTILITY) ID# 30

At the extreme north end of the field, there are mud flats. Access to these "FLATS" is very difficult, but it is the responcibility of N.A.S. FIRE to protect this area. LUCKILY there are 9 Helicopters (6 on the east side, and 3 on the west side) to assist the F.D. in case of an AIRCRAFT CRASH in the "FLATS"

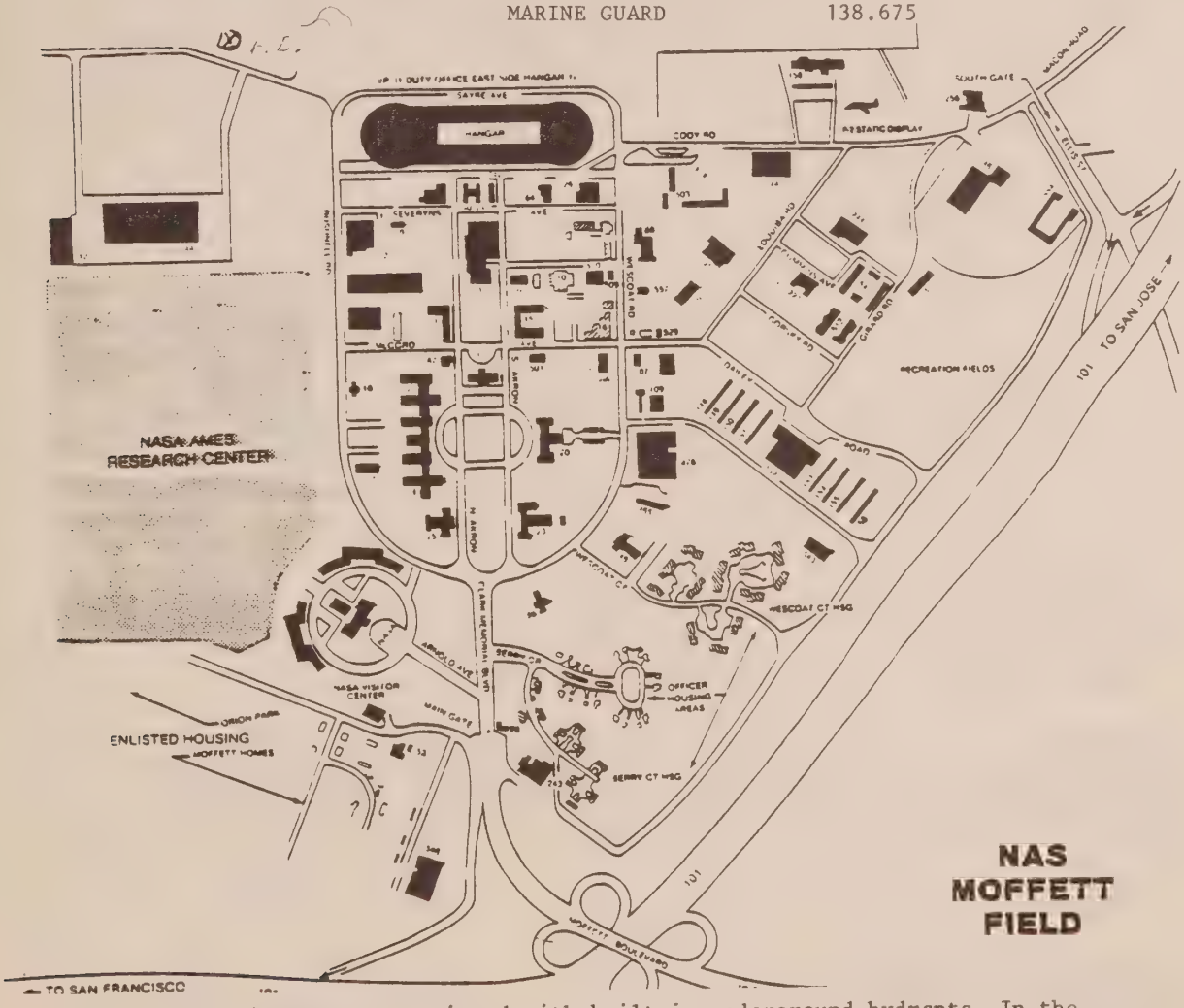
Moffett Field



RUNWAY NUMBERS	12R and 12L 30R and 30L
CONTROL TOWER	126.200
GROUND CONTROL AIRCRAFT	121.600
APPROACH CONTROL	120.100

FREQUENCIES:

SECURITY #1	139.575 (DELTA)
#2	140.050
#3	141.250
	141.000
FIRE #1	140.250
#2	142.525
GROUND CONTROL VEHICLES	142.575
AIR NAT'L GUARD TOWER	127.05
MARINE GUARD	138.675



Runways and ramps are equipped with built in underground hydrants. In the case of an AIRCRAFT CRASH, the structure section would respond with the crash crew, and lay supply lines from these underground hydrants to the crash trucks (P4A's).

MOFFETT FIELD, has a very strict fire prevention program. Once each year every building (housing included) gets an inspection. Any violation to base code is to be rectified immediatly. THIS PROGRAM IS ENFORCED BY THE COMMANDING OFFICER MOFFETT FIELD N.A.S.

Communications Profile continued

MOFFETT FIELD has a small detachment at CROWS LANDING FIELD (San Joaquin County). Many of the aircraft at MOFFETT fly to Crows Landing for practice TOUCH and GO's. Crows Landing has 4ea. 500 gallon capacity crash rigs (the smallest of the NAVY's crash protection equipment)

MOFFETT FIRE is responsible for the protection of NASA AMES RESEARCH (365 acres, w/50 main structures--labs--and wind tunnels)

EQUIPMENT ALLOCATIONS//RESPONSES

AUTO ACCIDENT	at least two pumpers and the quick attack (MOFFETT 33)
RESUSCITATOR CALLS	UTILITY MOFFETT 30
AIRCRAFT CRASH	MOFFETT 32, 34,36, 33, 23,
STRUCTURE FIRE	MOFFETT 22, 20, 24, 23, and MOFFETT 33 if it is available

note; MOFFETT 33 is primarily for aircraft incidents, structure fires, auto accidents etc. are a lower priority.

On the east side of the field there are facilities for a barge. Whenever that barge is off loading, or on loading (usually fuel) MOFFETT 30 will respond on a stand by basis.

MOFFETT FIELD is a staging area for re-usable crash rigs. Fire rigs come in from all over the world, and are staged at public works. Then contractors will come in and evaluate what needs to be done, to bring the crash rigs up to working order. Then the rigs are sent out for rehabilitation, then on to their new naval assignment.

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contact/info wanted

This column has two purposes: to help members contact each other, and to help members obtain information directly from one another on various subjects related to 2-way communications monitoring. If you desire to converse, meet, or correspond with other members by telephone, letter, or cassette tape in a certain geographic area or with members who have similar listening interests, this is the perfect place for you to make known your interests. Remember – those who respond will do so directly, so be sure to provide your phone number, the best time to be called, or your address. Write to:

Amy Polivka, 12906 Ohio Circle, Omaha, NE 68164

MEDFORD, OREGON FREQUENCIES: This member woule like frequencies for police, fire and ambulance for Medford, Oregon and surrounding area. He has some Hawaii frequencies to trade. (6-3-84)
DARRYL WILLIS (HI-010), 340 Kapii Place, Hilo, HI 96720

INFO WANTED: Anyone who has the National Directory of Survival Radio Frequencies or The "Top Secret" Registry of U.S. Government Radio Frequencies-Fifth Edition. Am particularly interested with any national and/or Minnesota listings from either book. Will appreciate responses from anyone interested in Federal frequencies. (6-4-84)
JAMES A. SCHNOOR (MN-003), 1015 E. Co. Rd. #303, St. Paul, MN 55110 or (612) 483-6800 anytime

POPULAR COMMUNICATIONS ISSUES WANTED: For September 1982, October 1982, November 1982, December 1982, January 1983, February 1983, and March 1983. Please contact the following member if you have any of the above issues. Also, please state the condition of the magazines. (6-4-84)
ARTHUR E. WILLIAMS, JR. (NY-022), 576 Springtown Rd., New Paltz, NY 12561 (914) 658-9467 12 noon to 9 pm EST

FCC TOPICS

George DuBois, Editor

FCC news and information of interest relating to two-way communications. Send comments and questions to:
George DuBois, 10048 NE Campaign, Portland, OR 97220

Eight frequencies have been allocated in the 169 to 172 mHz band for low-power wireless microphones. The frequencies are offset 5 kHz from the channels presently available for telemetry use by both Private and Governmental entities. (See June column, p.37, footnote US13.) They are available on a non-interference basis to eligibles in any of the Private Land Mobile services. Maximum power is 50 milliwatts, thus the likelihood of interference to telemetry stations is remote. The reverse is more likely true, since primary use will probably be in PA systems, so operation will no doubt be done on an unused channel. No prior notice was given in this proceeding since no public comment was necessary. (The amendment was enabling - frequencies were added, no limiting rules or amendments were made.) Actually, what happened was that a manufacturer (Cetec Vega) lobbied NTIA and got them to get the FCC to allocate the frequencies.

169.445	171.045
169.505	171.105
170.245	171.845
170.305	171.905

The Commission has amended the Rules regarding the use of the 800 mHz band along the Canadian border. When the agreement was reached with Canada in 1982, the area up to 60 miles from the border was divided into six regions, stretching the length of the border. Channels in these regions were divided between the two countries. Two additional regions, 7 and 8, run the width of the continent and extend from 60 to 87.5 miles from the border. Stations in these two regions are subject to power and antenna height restrictions as necessary to limit interference. The final agreement with Canada only covered stations within this 87.5 mile range and said nothing about the remaining 12.5 mile wide strip, up to the 100 mile limit in which 800 mHz operation was prohibited, until that time. The Commission called this Region 9 and imposed the same limits as in Regions 7 and 8. Since this area is mainly rural the Commission has now eliminated Region 9 completely, allowing unrestricted operation. The only urban area that will benefit by this action is Seattle, Wa.

The FCC has deleted Subpart CC from Part 83 (Shipboard Maritime Services). Subpart CC was a condensed version of applicable rules contained in Part 83, written in a simple question and answer format (similar to the Citizens Radio Service rules, Pt. 95, Subpart D.). It was available as a separate booklet, mainly for recreational boaters. Since there is no longer a requirement to carry Part 83 in domestic service, the FCC is deleting Subpart CC and issueing a bulletin to serve as a guide to the licensing and operation of VHF marine radios. The bulletin will be cheaper to print and easier to keep current.

The FCC has reaffirmed their decision to require open entry for nationwide paging networks at 932 mHz (9/83 column). This means that the "network organizers", who eventually will be licensed on the three "nationwide" channels, will be required to allow any local common carrier to offer nationwide paging originated by their system. This will ensure that no paging company is placed at a competitive disadvantage because it can't offer network paging, and will offer more diverse service to consumers. But they denied open entry for paging termination, the actual transmission of pages in each city. To allow more than one paging company to transmit network pages in every city would deprive the network organizer of control over the number and location of transmitters and result in the duplication of facilities, with no competitive advantage. Sixteen applications have been accepted for the nationwide channels and a lottery will be conducted to award licenses. The licensee then may select the local companies to participate in the system. The licensee has two years in which to have a nationwide system in service.

Lotteries will be used to award licenses in the Cellular Radiotelephone Service in the markets below the top 30. This will speed up the selection process by eliminating the lengthy process of

detailed applications, challenges, hearings, etc., etc. Now, Petitions to Deny (filed by competing applicants) may only be filed against the lottery selectee. No lottery preference will be given to any applicant, except in the case of consolidation of applications where, for example, three entities decide to form a partnership and then file a joint application. They will still be allowed three "points". The "wireline set-aside", which allocated two blocks of frequencies, one for telephones companies, one for RCC's, was continued. It was instituted to ensure that RCC's would be able to compete for frequencies against the "vast resources" of AT&T, and was to expire last April. Now, the reverse is true - with a lottery the telephone companies would be in the statistical minority against the numerous non-wireline applicants and wouldn't stand a chance. Applications for Markets 91-120 were due July 16 and notices will be given for acceptance of applications for the remaining markets in 30-city groups.

The Commission has lessened or eliminated the requirements for Commercial Radiotelephone Operator licenses in a number of services. In the Private Land Mobile services, maintenance and service of transmitters need no longer be performed only by persons holding commercial radio operators licenses. The vast majority of commenters opposed this, since they believed this would result in a large number of unqualified technicians or service shops. Many were concerned about the resultant potential decrease in transmission quality and about possible interference. Many local governments (and private licensees as well) relied on the FCC technician testing as an indication of proficiency. The FCC license tests haven't been updated in years, but at least showed that a guy knew something! But since they cost the FCC money to administer, with no direct benefit in return, it was obvious they had to go. The FCC stressed again that it is the licensee that is ultimately responsible for the proper operation of his station, not the technician. He should be free to choose whomever he wishes to maintain his equipment. The Commission is encouraging private user organizations or committees to set up testing and certification programs between now and the date these rule changes go into effect (in November). Two groups have so far indicated they will do so. The amended rule parts will now state that "service or mainenance should be performed by persons certified...etc.", instead of "shall be...", as before. So in reality there's nothing to stop a plumber from having his radios fixed by his truck mechanic or his brother-in-law who fixed a TV once.

The Commission has released a proposal that would allow the use of spread spectrum technologies on selected frequencies above 37 mHz. Spread spectrum is the term given to systems that spread the RF carrier over a very wide bandwidth, by a number of means. One part of this proposal would allow the use of any spread spectrum technique on any frequency above 70 mHz, using very low power. Unlicensed use above 70 mHz is permitted now, under Part 15, but with low power, on the order of a few milliwatts, for uses such as home security systems, garage door openers, etc. Operation is not allowed near certain emergency and navigation frequencies. Spread spectrum could be used for devices such as wireless microphones or data terminals, cordless telephones, etc. The present limits on transmission duration (one second in 30 seconds, in some bands) might have to be amended, although with frequency or time hopping systems, this limit poses no problem. Emissions within individual TV channels would have to be limited though, since TV sets receive such a wide bandwidth (6 mHz) and would be more sensitive to interference.

The second part of this proposal would allow the use of frequency-hopping and direct sequence systems in the Police Radio Service. Use would be allowed for stakeouts, surveillance, etc., and maximum power would be two watts. (This is allowed now, with conventional voice, on any Police frequency above 42 mHz, without further authorization.) With frequency hopping systems, the maximum power could be 15 watts, if the hopping rate is greater than 10 channels per second and more than ten frequencies are used. Direct sequence systems (a high-speed code sequence to which the digitized information is added) could be allowed in the 37, 39, 44.6-46.6 154 and 158 mHz bands. Maximum power would be 10 mw. per kHz of spectrum. Use would be on a non-interference basis and would have to be coordinated with other users. The Commission does not anticipate that spread spectrum use will replace other forms of modulation, but merely offer an option

that may be advantagous, such as sharing of certain bands where the potential for interference is small, controlling multipath interference, privacy and so on. The greatest demand from the private sector is expected to be for wireless data terminals. And as far as the law enforcement community is concerned, they are well aware of the increasingly sophisticated means for monitoring their communications.

The FCC has released another proposal that would eliminate most of the remaining restrictions on interconnection (autopatch) in the bands below 800 mHz. Interconnection is presently prohibited in the Special Emergency, Business, Auto Emergency, Special Industrial and Taxicab Radio services within 75 miles of the 25 largest urban areas. There is also a 3-minute time limit on autopatch calls and a 3-second limit on mobile calling tones. Automatic monitoring equipment is required to prevent transmitter activation while the channel is in use. Most of these requirements have been eliminated in the 851 mHz band, so the Commission is proposing to extend the same flexibility to users in the VHF and UHF bands. Also, interconnection would be permitted at a common point (the repeater, for example) instead of the licensees base or control station. This is also permitted now at 800 mHz, as long as the telephone service is provided on a non-profit, cost sharing basis.

At the request of the Coast Guard the Commission is proposing an amendment that would prohibit the use of Marine Channel 16 (156.8 mHz) for "radio checks" with Coast Guard stations. These checks would still be permitted by qualified technicians or during FCC inspections. And they would still be permitted with other mobile or land stations with a 5 minute waiting period between tests. But the unrestricted practice presently is causing congestion and in some cases interference with other Coast Guard communications. Besides, the Coast Guard usually already knows their own radios work and doesn't need to test them with some jerk in a Starcraft every ten minutes.

The FCC is proposing labelling requirements on the packaging of cordless telephones informing the consumer what, if any, security features the phones have. When the Commission allocated the new frequencies for cordless telephones (May column), they declined to adopt any requirement for "security" (the inadvertant or intentional access to a users telephone by a remote handset other than the owners, not "security" in the sense that the conversation can be overheard. Such a warning is already required on the equipment.) AT&T and GTE both expressed concern about cases of misbilling or difficulty tracing obscene calls placed through someone else's phone. Still, the FCC would rather leave any design requirements to marketplace forces. The security provisions would be labelled on the box and the consumer would have the option of choosing the equipment suited to his or her perceived need.

Two companies have petitioned the FCC to allocate channel 11, 454.925 mHz, for aircraft mobile telephone service in Austin, Texas. Since these channels are assigned according to a Table of Allocations, a Rule amendment is required to add new locations not in the Table. The Petitioners state that there is significant aviation activity in Austin and surveys indicate a need for aircraft radiotelephone service in the area. Although one channel is available nearby in San Antonio, calls made through this, or other stations, result in a toll charge due to their distance from Austin.

Motorola has petitioned the FCC to allow increased power for 851 mHz repeaters at four sites in the San Diego area. Due to the irregular terrain of the area, with numerous peaks and valleys, serious coverage problems within the metropolitan area have resulted. They ask that 500 watts ERP be permitted at the four mountain-top sites (Palomar, Otay, Woodson and Miguel) for both trunked and conventional systems. A similar waiver of power limits was granted in the Los Angeles area years ago for certain high-elevation locations, to alleviate a similar situation. Interference between the two cities should be minimal, since 800 mHz assignments in San Diego are offset 12.5 kHz in frequency from normal channels.

For those of you who may be interested, here is the price and ordering information for the latest set of FCC license microfiche. For more information, refer to the Feb., 83 column, or send me a

long SASE with an extra mint stamp inside and I'll send you a copy of the article.

Master Frequency Data Base, Frequency sequence	PB84-919301	$361.50
Master Frequency Data Base, Service Group sequence	PB84-919401	$266.50
Licensee Name Index	PB84-902301	$ 22.50
Transmitter State Index	PB84-902401	$ 22.50
Callsign Index	PB84-902501	$ 22.50

Order from the National Technical Information Service, 5285 Port Royal Rd., Springfield, Va. 22161.

FEDERAL GOV'T and MILITARY

Send all Federal Government and Military frequencies (including those of militaw aircraft), radio system details, and related questions to:
Dennis Biagioli, 607 W. Pleasant Ave., Villa Park, IL 60181

Sensitive frequencies will not be published. Coast Guard material must go to the VHF Marine editor.

Hi! Welcome to Federal Government / Military -- September edition. I do hope everyone had a wonderful Summer and are now preparing for a similar Fall.

One of the things Summer brings are the open-house activities at many of our finer military bases, especially Air Force. That is when many of us learn new frequencies simply by asking and being alert. At the Armed Forces Day activities at Chicago O'Hare, we learned of:

126th AREFW (Air Refueling Wing)
Aircrew Life Support "On Base Operations"
F-1 138.300
F-2 138.400

KEVIN O'ROURKE (IL-274) did a lot of research, listening and asking of questions, and the following lists were uncovered. First from Fermi-Lab in Batavia, Illinois, and then Great Lakes Naval Training Center, Illinois.

FERMI-LAB

Ch.	Freq.	Usage
1)	167.9250	Security & Fire Dispatch
2)	168.4500	Roads & Grounds
3)	169.6000	Taxi's
4)	164.3500	Plant maintenance
5)	164.3250	"Bubble Chamber" units
6)	164.2500	Experimental areas
7)	164.2750	Experimental areas
8)	154.0700	Fire link with Tri-Comm (no PL)
9)	154.2500	Fire link with Aurora
10)	154.0700	Fire link with Tri-Comm (with PL)
11)	154.3100	Fire link with Warrenville
12)	154.830	Tri-Comm Fire-ground
13)	154.265	NIFERN Fire Mutual-Aid
14)	155.340	Copley Hospital (PL) MERCI
15)	155.340	Geneva Community Hosp. (PL) MERCI
16)	155.340	Central DuPage Hosp. (PL) MERCI

Fire Unit Identifiers

700 - Fire Base
703 - Fire Prevention Officer
705 - Fire Chief
706 - Deputy Chief
707 - Shift Captain
708 - Shift Lieutenant
709 - Firefighter
710 - Firefighter
711 - Engine
712 - Firefighter
713 - Rescue / Lighting Squad
714 - Ambulance
715 - F.D. van
716 - Grass-Fire Vehicle
717 - Firefighter
718 - Firefighter
722 - Engine
723 - Engine
750 - Cheif's Car

GREAT LAKES NAVAL TRAINING CENTER

OUT/SIMPLEX	INPUT	CH.	USE
148.2750	150.0750	1	Fire Dispatch
153.890		2	Lake County Fire Common
149.4500	148.9500	1	Security (DOD, not Navy)
148.3500		2	Security
140.6500			Security tactical portables
150.1000			Paging

JOE LEWIS (MD-015) sends along this list from the Washington, DC, area.

123.050 U.S. Park Police Helicopter to Washington MEDSTAR
148.430 Serern River Naval Command, Annapolis
149.000 Naval Academy Disaster Preparedness
149.115 Washington, DC, military police
149.290 Naval Academy, Hospital / Public Works Ch-1
149.350 Quantico, VA, Marine Corps fire Ch-1
149.865 Fort Richie, MD, security
162.2125 National Airport Pager
162.6625 V.A. Hospital, DC, pager
163.4625 Andrews Air Force Base, MD, security
163.4875 Bolling Air Force Base, DC, security
163.5625 Fort Meade, MD, military police
164.0750 Walter Reed Hospital, pager
164.3000 National Institute of Health, MD, security
165.0875 Walter Reed Hospital Fire/Security
165.2625 St. Elizabeth Hospital Fire/Security
165.5000 National & Dulles Airports Fire/Crash
165.6625 National Airport Police (FAA)
165.7125 Dulles Airport Police (FAA)
165.7500 FAA Aircraft Accident Investigations
166.9000 Shennandoah National Park
166.9500 C & O Canal
168.4250 Harpers Ferry, WV, National Park
169.5250 Postal Service, DC, central transportation
169.3250 Dulles Airport, mobile lounge control
169.5750 U.S. Capitol, Republican pager
173.5875 Andrews Air Force Base, fire
413.000 Andrews Air Force Base, Security Ch-1
413.200 Andrews Air Force Base, maintenance
413.275 Andrews Air Force Base, Security Ch-2
413.900 Agriculture Dept., Beltsville, MD, security
415.825 National Institute of Health, Bethesda, MD, fire

GEORGE DU BOIS (OR-001) sent along this very extensive list of additions and corrections to the listings of the March NEWSLETTER.

149.175 McChord "Workload Control"
163.4875 Portland, S.P.'s F-2
163.5250 Base Operations, F-1
165.0125 142nd Maintenance
165.1625 P. O. L.
173.5875 also Portland "Crash"

413.1250 McChord S.P.'s
413.8250 McChord S.P.'s

163.2375 not Army Engineers
163.3900 not used for voice, telemetry frequency range
167.8062 USGS telemetry
168.4250 USGS Mount St. Helens (167.0750 input)
413.4125 not usually a valid assigned frequency
172.500 DOE automated system B.P.A.
172.550 DOE automated system B.P.A.

From the Grants, New Mexico, area member NM-016 sends us this:

CIBOLA NATIONAL FOREST

	Tx	Rx
F-1	171.450	171.450
F-2	172.350	171.450
F-3	170.450	170.450
F-4	172.225	172.225

Nearly all traffic is reported to be on F-2 (the repeater is on Mt. Taylor, 11,000 feet elevation), and hardly any usage of the remaining channels. Also, he tells of a reported 164.4000 repeater of White Sands (missiile range) located at the same site, but has not confirmed this.

JOHN MARX (WI-019) found an Army Field Manual (FM 19-5) THE MILITARY POLICE HANDBOOK "in the library." Of possible interest to some is a list of "Ten Signals."

10-1 Emergency, clear the net.
10-2 Emergency, request assistance at (location).
10-3 Vehicle accident at (location).
10-4 Send wrecker to (location).
10-5 Send ambulance to (location).
10-6 Send civil police to (location).
10-7 Pickup prisoner(s) at (location).
10-8 Have prisoner(s) in custody at (location).
10-9 Send police van to (location).
10-10 Escort, pickup (person or convoy) at (location).
10-11 In service at (location).
10-12 Out of service at (location).
10-13 Repeat last transmission.
10-14 What is your location? My location is _____.
10-15 Proceed to (location).
10-16 Report by phone.
10-17 Return to your station.
10-18 Last assignment completed.
10-19 Do you have contact with _____?
10-20 Relay to _____.

To wind up this month I would like to give a little information about an apparently little known agency. This is from "The United States Government Manual 1983/84," an available publication from the U.S. Government Printing Office. The map in courtesy of "U.S. Government Frequency Listings."

FEDERAL EMERGENCY MANAGEMENT AGENCY

The Federal Emergency Management Agency (FEMA) was created to provide a single point of accountability for all Federal emergency preparedness, mitigation, and response activities. The Agency is chartered to enhance the multiple use of emergency preparedness and response resources at the Federal, State and local levels of government in preparing for and responding to the full range of emergencies -- natural, manmade, and nuclear -- and to integrate into a comprehensive framework activities concerned with hazard mitigation, preparedness planning, relief operations, and recovery assistance. FEMA was established in the executive branch as an independent agency in 1978.

The departments within FEMA include: Emergency Operations; Federal Insurance Administration; Training and Fire Programs / National Emergency Training Center; National Preparedness Programs; State and Local Programs and Support; and Resource Management and Administration.

The ten FEMA regional offices are the primary means by which the Agency's programs are carried out at the State and local levels. Regions and office locations are:

1. Boston, MA
2. New York, NY
3. Philadelphia, PA
4. Atlanta, GA
5. Chicago, IL
6. Denton, Tx
7. Kansas City, MO
8. Denver, CO
9. San Francisco, CA
10. Bothell, WA

The "Unclassified" IRAC microfiche lists eleven frequencies with locations and station classes:

139.825	New York, R-out
139.925	New York, R-out, KPS-302
140.025	Maynard, MA, R-out
140.900	Boston, MA, R-out, KPS-311
142.350	Arizona, mobiles
	Agana, Guam, mobiles
	Region 9, mobiles
142.375	Arizona, mobiles
	Agana, Guam, mobiles
	Region 9, mobiles
	Bothell, WA, mobiles
142.425	Arizona, mobiles, portables
	Region 9, portables
142.975	Arizona, mobiles
	Agana, Guam, mobiles
	Region 9, mobiles
143.000	Arizona, mobiles
	Agana, Guam, mobiles
	Boston, MA, base, KPS-311
	Maynard, MA, base, KPS-301
	New York, portables
	Region 9, mobiles
143.050	Bothell, WA, mobiles, KPS-310
143.600	Maynard, MA, R-out, KPS-301
	Boston, MA, R-out, KPS-311

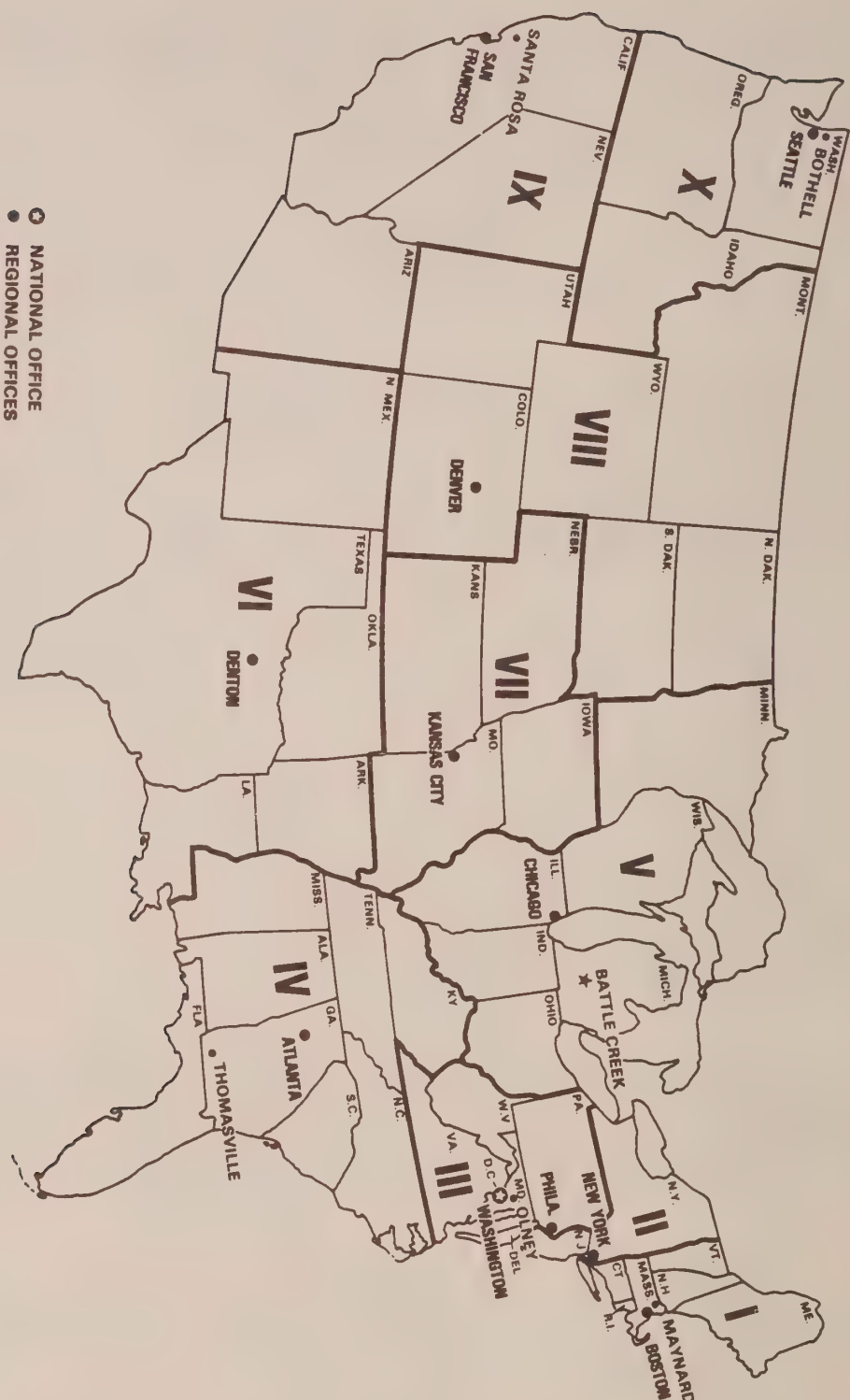
A source wishing to remain anonymous because of his position reports that information from the agency itself is that each region has four channels: the regional repeater pair, a regional simplex, a "Nation-wide" repeater pair, and a "Nation-wide" simplex frequency (these last two being common to all regions). The simplex is a separate frequency, not a repeater "talk-around" operation. Without giving specific locations, he reports the following frequencies and their usages.

138.225	R-out	141.950	R-in
138.575	R-out	142.375	Simplex
139.450	R-out	142.400	Simplex
139.825	R-out	142.425	R-in
139.950	R-out	142.925	Simplex
140.025	R-out	142.975	Simplex
140.900	R-in	143.000	R-in
142.925	Simplex	143.250	R-in
141.725	Simplex	143.625	Simplex
141.875	R-in		

This winds up another month. Don't forget, send along your comments, frequency finds, or anything else you wish to share. We all joined RCMA to gain information about our particular interests. If nobody shares, then nobody learns anything new! My personal feeling is that anyone who learns something new from another member's contributions "owes one" back. How about doing your share??

FEDERAL EMERGENCY MANAGEMENT AGENCY

REGIONAL BOUNDARIES WITHIN THE CONTERMINOUS UNITED STATES



Have a good September!!

'73's -
Denny

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International

This column is for reporting two-way communications frequencies above 30 MHz, radio system details, monitoring experiences, and any other information relating to monitoring in countries other than the United States and Canada. Send to: Rickey Stein, 456 Barrymore Place, North Brunswick, NJ 08902.

I had just mailed last month's column when I received a letter from a couple of Irish monitors. They wrote that they had done some monitoring when President Reagan was in Ireland and hoping to get frequency information and maybe even some tape recordings, I dashed off a letter. Just received their response today and here's what they have to say.

"During President Reagan's visit, most of the communications were on our own regular police frequencies, with different call signs. For example, our armed police are called 'Sierra' normally. For this visit, they were designated 'Blue' and 'Red'. There was an 'Eagle' base and mobiles, but the voices were Irish and again it came on regular channels. I had not even thought of taping them. I believe you are correct in saying that the usual Secret Service frequencies are allocated to business radios here. The SS made a deal with one local security company. They called in all its hand-held sets for the duration and rented them to the SS. Whether they used these sets or just wanted a clear channel, I don't know. Because of recharging on different voltage, they may have required European equipment. We did not get any of this traffic because we didn't know of the equipment rental until after the visit."

I'm still waiting to hear from some other Irish monitors. Perhaps they have additional information or tapes of this visit. Will keep everyone informed.

••••••••

Received a letter from John Marx some time back with a sheet from the "International Frequency List-recapitulative supplement #7" published in

Geneva Switzerland (see Fig. 1). This list is published by the International Frequency Registration Board (IFRB) and costs some 600 Swiss francs- well over $300. John would like to share the cost of this publication with other members. A new edition was in preparation in 1983. It is believed that this is the source of Tom Kneitel's border area listings in his "Top Secret Registry". If anyone is interested, please contract John Marx, P.O. Box 977, Madison, WI 53701 or let me know and I'll forward it to John.

MHZ | FIRST USED CALL LOCATION | LOWEST FREQUENCY WITH EMISSION | PAIRED NOTES A

1	2a	2b	2c	2d	3	4a	4b	4c	5a	5b	6	7	8	9a	9b	9c	10	11	12a	12b	13a	13b	13c
353.35			2. 5.80	18. 8.80	TEPEZALA AGS	MEX	102W08	22N12	AGUASCALIENTES	4 FX	CV	100F9	0.01	206	29	13	H24		A	A	-	-	D	
353.75			8.12.79	17. 3.80	BONFIL CAMP	MEX	99W11	19N32	BOBOLA CAMP	38 FX	CV	100F9	0.01	318	29	13	H24		A	A	-	-	D	
353.75			30. 5.79	13. 8.79	CAGUAMA 1 BC	MEX	112W32	27N22	ALMEJA BC	15 FX	CV	100F9	0.01	98	29	13	H24		A	A	-	-	D	
353.75			7. 1.80	24. 3.80	CALEERTOK YUC	MEX	88W56	20N34	CHUNCHUMIL	31 FX	CV	100F9	0.01	286	29	13	H24		A	A	-	-	D	
353.75			30. 5.79	13. 8.79	COZOYOAPAN GRO	MEX	98W14	16N47	HUAPINOLE GRO	19 FX	CV	100F9	0.01	286	28	13	H24		A	A	-	-	D	
353.75			30. 5.79	13. 8.79	CUAUTLA MOR	MEX	99W18	18N44	CUAUTLA MOR SIM	19 FX	CV	100F9	0.01	131	28	13	H24		A	A	-	-	D	
353.75			30. 5.79	13. 8.79	NIEVES DGO	MEX	105W38	26N55	CANELAS DGO	19 FX	CV	100F9	0.01	98	28	13	H24		A	A	-	-	D	
354			20.11.78	15. 2.79	PAPAGAYOS NL	MEX	98W43	25N43	LOS HERRERA NL	37 FX	CV	100F9	0.01	98	28	13	H24		A	A	-	-	D	
353.75			2. 3.79	26. 7.79	VALLEHERMOSO	MEX	97W45	25N39	S. TERESA TAM	7 FX	CV	300F9	0.01	183	28	10	H24		A	A	-	-	D	
354			20.11.78	15. 2.79	LIRIOS GRO	MEX	98W50	16N52	ACAPULCO GRO	7 FX	CV	300F9	0.01	244	28	10	H24		A	A	-	-	D	
354.15			3. 5.79	26. 7.79	JUAN ALDAMA ZC	MEX	103W23	24N17	MORELOS ZAC	15 FX	CV	300F9	0.01	148	29	13	H24		A	A	-	-	D	
354.15			30. 5.79	13. 8.79	LOS FIERROS GT	MEX	100W45	20N11	EL JARAL MICH	46 FX	CV	300F9	0.01	131	12	18	H24		A	A	-	-	D	
354.15			9. 3.80	19. 5.80	NANCHITAL VER	MEX	94W24	17N57	COATZACOALCOS	7 FX	CV	300F9	0.1	30	11		H24		A	A	-	-	D	
354.15			20.11.78	15. 2.79	TECRUZ PUE	MEX	97W24	19N48	TLATLAQUITEPEC	10 FX	CV	300F9	0.01	203	28	10	H24		A	A	-	-	D	
354.55			2. 1.80	24. 3.80	CASA BLANCA SN	MEX	108W28	25N27	GUASAVE SIN	12 FX	CV	100F9	0.01	348	28	13	H24		A	A	-	-	D	
354.55			2. 5.80	18. 8.80	CHIVATAN CHIH	MEX	107W38	28N09	PAULO MAYA CHIH	39 FX	CV	100F9	0.01	146	28	13	H24		A	A	-	-	D	
354.55			5. 3.79	22. 5.79	LAMPAZOS NL	MEX	100W30	26N58	CANDELA COAH	28 FX	CV	100F9	0.01	146	28	10	H24		A	A	-	-	D	
354.55			30. 5.79	13. 8.79	S BARTOLO BC	MEX	109W52	23N44	S BARTOLO BC	8 FX	CV	100F9	0.01	244	28	10	H24		A	A	-	-	D	
354.55			15. 6.79	20. 8.79	TULA TAM	MEX	99W16	20N02	R TULA TAM	3 FX	CV	100F9	0.01	146	20	10	H24		A	A	-	-	D	
354.55			5. 3.79	22. 5.79	VALLE BANDERAS	MEX	105W15	20N48	PT VALLARTA JL	23 FX	CV	100F9	0.01	176	28	13	H24		A	A	-	-	D	
354.95			3. 5.79	26. 7.79	EL BURRO MICH	MEX	101W30	19N26	MORELIA MICH	46 FX	CV	100F9	0.01	49	29	13	H24		A	A	-	-	D	
354.95			20.11.78	15. 2.79	EL FOGOS GRO	MEX	98W52	16N30	MECHUDO GRO	43 FX	CV	3A3J	0.01	75	12	18	H24		A	A	-	-	D	
354.95			3. 5.79	26. 7.79	EL TERRENO CHIH	MEX	107W23	29N12	NAMIQUIPA CHIH	6 FX	CV	100F9	0.01	353	28	10	H24		A	A	-	-	D	
354.95			30. 5.79	13. 8.79	EL TERRENO JAL	MEX	103W12	20N54	CUQUIO JAL	19 FX	CV	100F9	0.01	312	29	13	H24		A	A	-	-	D	
355			20.11.78	15. 2.79	LIRIO NEGRO ZC	MEX	98W22	18N05	COATZACOALCOS	7 FX	CV	300F9	0.01	312	29	10	H24		A	A	-	-	D	
354.95			3. 5.79	22. 5.79	HUNUCMA YUC	MEX	89W52	21N01	SISAL YUC	27 FX	CV	300F9	0.01	303	28	10	H24		A	A	-	-	D	
355.35			30. 5.79	13. 8.79	CAGUAMA 2 BC	MEX	112W32	27N22	ABULION BC	48 FX	CV	100F9	0.01	303	28	10	H24		A	A	-	-	D	
355.35			30. 5.79	13. 8.79	CP GOBIERNO SN	MEX	98W18	16N46	HUAPINOLE GRO	24 FX	CV	100F9	0.01	220	28	13	H24		A	A	-	-	D	
355.35			2. 5.80	18. 8.80	EL MESON GRO	MEX	88W23	20N39	VALLADOLID YUC	12 FX	CV	100F9	0.01	220	29	10	H24		A	A	-	-	D	
355.35			7. 1.80	24. 3.80	KAUA YUC	MEX	107W28	29N15	LAS CRUCES CHH	21 FX	CV	100F9	0.01	75	29	13	H24		A	A	-	-	D	
355.75			20.11.78	15. 2.79	TARICHIC CHIH	MEX	103W00	23N41	RIO GRANDE ZAC	22 FX	CV	300F9	0.01	117	28	13	H24		A	A	-	-	D	
355.75			3. 5.79	26. 7.79	EL CHIVO	MEX	100W06	21N58	RIO VERDE SLP	13 FX	CV	300F9	0.01	18	28	13	H24		A	A	-	-	D	
355.75			6.12.79	17. 3.80	LAS PIEDRAS ZC	MEX	103W00	22N41	RIO GRANDE ZAC	16 FX	CV	300F9	0.01	117	28	10	H24		A	A	-	-	D	
355.75			20.11.78	15. 2.79	TLACOZAMA SON	MEX	108W41	30N22	S. DOMINGO SON	8 FX	CV	300F9	0.01	96	29	10	H24		A	A	-	-	D	
355.75			6.12.79	17. 3.80	TLACOZAMA SON SLP	MEX	100W41	22N22	S. DOMINGO SON	8 FX	CV	300F9	0.01	98	29	10	H24		A	A	-	-	D	
355.75			20.11.78	15. 2.79	TECRUZ PUE SLP	MEX	97W24	19N48	TLATLAQUITEPEC	7 FX	CV	300F9	0.01	338	28	10	H24		A	A	-	-	D	
355.75			15. 6.79	20. 8.79	ZAPOAPITA VER	MEX	98W58	18N50	CORDOBA VER	7 FX	CV	300F9	0.01	60	28	10	H24		A	A	-	-	D	
356.15			30. 5.79	13. 8.79	CADUANO	MEX	108W44	23N15	MIRAFLORES BC	11 FX	CV	100F9	0.01	215	28	13	H24		A	A	-	-	D	
356.15			30. 5.79	13. 8.79	EL FUERTE SIN	MEX	108W39	26N25	S FRANCISC SIN	30 FX	CV	100F9	0.01	248	28	13	H24		A	A	-	-	D	
356.15			2. 3.79	26. 7.79	MAGUEY ARRIBA	MEX	98W07	24N53	S. FERNANDO TAM	6 FX	CV	100F9	0.01	219	28	10	H24		A	A	-	-	D	
356.15			5. 3.79	22. 5.79	VALLE BANDERAS	MEX	106W15	20N48	S. JOSE VALLE	6 FX	CV	100F9	0.01	160	28	10	H24		A	A	-	-	D	
356.55			30. 5.79	13. 8.79	EL BURRO MICH	MEX	101W30	19N26	CERRO BLANCO	22 FX	CV	100F9	0.01	134	29	13	H24		A	A	-	-	D	
356.55			30. 5.79	13. 8.79	S MARCOS GRO	MEX	99W23	16N47	CERRO VERDE GR	9 FX	CV	300F9	0.01	139	29	13	H24		A	A	-	-	D	
356.55			6.12.79	17. 3.80	HUHI YUC	MEX	89W00	20N30	HUHI YUC	7 FX	CV	300F9	0.01	338	28	10	H24		A	A	-	-	D	
356.95			30. 5.79	13. 8.79	AEROPUERTO BC	MEX	112W18	27N28	S QUASAVE SIN	13 FX	CV	100F9	0.01	312	29	13	H24		A	A	-	-	D	
356.95			5. 3.79	22. 5.79	CELESTUN YUC	MEX	90W23	20N51	CHUNCHUCMIL	30 FX	CV	100F9	0.01	354	29	13	H24		A	A	-	-	D	
356.95			20.11.78	15. 2.79	ESPERANZA CAMP	MEX	90W43	19N20	REFORMA CAMP	27 FX	CV	100F9	0.01	143	29	13	H24		A	A	-	-	D	
356.95			30. 5.79	13. 8.79	LOS ANGELES BC	MEX	113W14	27N28	ABULION BC	15 FX	CV	100F9	0.01	120	28	13	H24		A	A	-	-	D	
356.95			20.11.78	15. 2.79	LOS RAMONES NL	MEX	99W37	25N41	GARZA GONZALEZ	6 FX	CV	100F9	0.01	311	28	13	H24		A	A	-	-	D	
356.95			30. 5.79	13. 8.79	S ANTONIO JAL	MEX	103W57	20N33	EL SALITRE JAL	12 FX	CV	100F9	0.01	117	28	13	H24		A	A	-	-	D	
356.95			15. 6.79	20. 8.79	ZAPOAPITA VER	MEX	98W58	18N50	TORTUGAS SLP	27 FX	CV	100F9	0.01	138	28	13	H24		A	A	-	-	D	
357.3			20. 1.78	15. 2.79	EL CHIVO SLP	MEX	100W06	21N58	TORTUGAS SLP	63 FX	CV	300F9	0.01	96	28	13	H24		A	A	-	-	D	
357.35			30. 5.79	13. 8.79	EL JARAL MICH	MEX	100W26	19N53	EL JARAL MICH	4 FX	CV	300F9	0.01	104	28	13	H24		A	A	-	-	D	
357.35			6.12.79	17. 3.80	MECATEPEC VER	MEX	97W18	19N37	LOS ARGELES	5 FX	CV	300F9	0.01	117	29	10	H24		A	A	-	-	D	
357.75			30. 5.79	13. 8.79	BUENA VISTA BC	MEX	110W39	28N37	LOS ARGELES	4 FX	CV	300F9	0.01	216	29	10	H24		A	A	-	-	D	
357.75			2. 5.80	18. 8.80	EL MESON GRO	MEX	101W50	22N01	PILOTOS ZAC	12 FX	CV	100F9	0.01	265	28	10	H24		A	A	-	-	D	
357.75			2. 3.79	26. 6.79	REGIONAL TAM	MEX	97W42	22N14	TAMPICO TAM	26 FX	CV	300F9	0.01	265	28	10	H24		A	A	-	-	D	
357.75			15. 6.79	20. 8.79	VALLEHERMOSO	MEX	97W43	25N39	VALLEHERMOSO	3 FX	CV	100F9	0.01	284	28	10	H24		A	A	-	-	D	
358.15			2. 3.79	26. 6.79	CERRO ALAMOS	MEX	97W23	31N03	S DOMINGO SON	107 FX	CV	300F9	0.01	136	17	18	H24		A	A	-	-	D	
358.15			30. 5.79	13. 8.79	CERRO 2 VER	MEX	98W14	21N23	TANTOYUCA VER	4 FX	CV	300F9	0.01	151	28	10	H24		A	A	-	-	D	
358.15			5. 3.79	22. 5.79	CUTZIO MICH	MEX	100W53	19N41	CERRO BLANCO	21 FX	CV	300F9	0.01	356	28	10	H24		A	A	-	-	D	
358.15			2. 5.80	18. 8.80	LOS MOCHIS SIN	MEX	108W52	25N47	MEMORIA SIN	28 FX	CV	100F9	0.01	103	28	13	H24		A	A	-	-	D	
358.15			6.12.79	17. 3.80	MECAYAPAN VER	MEX	94W50	18N17	MECHACALCOS	43 FX	CV	300F9	0.01	50	28	13	H24		A	A	-	-	D	
358.15			20.11.78	15. 2.79	OMETEPEC GRO	MEX	98W24	16N47	OMETEPEC GRO	4 FX	CV	300F9	0.01	99	29	13	H24		A	A	-	-	D	
358.15			2. 3.79	26. 6.79	PALOMAS CHIH	MEX	107W44	31N21	LA DUNA CHIH	71 FX	CV	300F9	0.01	264	28	10	H24		A	A	-	-	D	
358.55			30. 5.79	13. 8.79	AEROPUERTO BC	MEX	112W12	27N18	A.MEJA BC	12 FX	CV	100F9	0.01	69	28	13	H24		A	A	-	-	D	
358.55			30. 5.79	13. 8.79	CHIHUAHUITA SN	MEX	109W03	26N09	S FRANCIS SIN	25 FX	CV	100F9	0.01	146	28	13	H24		A	A	-	-	D	
358.55			30. 5.79	13. 8.79	EL CERRITO JAL	MEX	103W59	19N46	LAS VIBORAS JL	18 FX	CV	100F9	0.01	113	28	13	H24		A	A	-	-	D	
358.55			20. 5.80	18. 8.80	KAUA YUC	MEX	88W23	20N39	DZITAS YUC	26 FX	CV	100F9	0.01	327	28	13	H24		A	A	-	-	D	
358.55			30. 5.79	13. 8.79	LAS VIBORAS JL	MEX	103W36	19N27	CD GUZMAN JAL	18 FX	CV	100F9	0.01	59	28	13	H24		A	A	-	-	D	
358.55			6.12.79	17. 3.80	VIZCAINO BC	MEX	113W14	27N28	ABULION BC	9 FX	CV	100F9	0.01	236	28	10	H24		A	A	-	-	D	
358.55			30. 5.79	13. 8.79	TEPOJACO MEX	MEX	99W00	19N15	DOMINGO SLP	9 FX	CV	100F9	0.01	292	28	10	H24		A	A	-	-	D	
358.95			6.12.79	17. 3.80	PROGRESO YUC	MEX	89W00	21N00	CHUNCHUCMIL	18 FX	CV	100F9	0.01	88	28	10	H24		A	A	-	-	D	
358.95			6.12.79	17. 3.80	A OBREGON CHIH	MEX	106W55	28N37	CORACHEPANIL	16 FX	CV	100F9	0.01	96	28	13	H24		A	A	-	-	D	
358.95			20.11.78	15. 2.79	CARDENAS SLP	MEX	99W38	21N59	TORTUGAS SLP	28 FX	CV	300F9	0.01	284	29	13	H24		A	A	-	-	D	
358.95			5. 3.79	22. 5.79	S PEDRO DGO	MEX	104W19	24N22	V GUERRERO DGO	78 FX	CV	300F9	0.01	142	28	13	H24		A	A	-	-	D	
359.35			6.12.79	17. 3.80	S RAFAEL VER	MEX	96W51	20N11	NAUTLA VER	9 FX	CV	300F9	0.01	157	28	18	H24		A	A	-	-	D	
359.35			2. 5.80	18. 8.80	HUAMANGUILLO	MEX	93W23	17N50	CARDENAS TAB	20 FX	CV	300F9	0.01	157	28	18	H24		A	A	-	-	D	
359.35			2. 3.79	26. 6.79	LAS VIBORAS JL	MEX	103W36	19N27	EL CERRITO JAL	43 FX	CV	100F9	0.01	157	28	13	H24		A	A	-	-	D	
359.35			6.12.79	17. 3.80	MAGUEY ARRIBA	MEX	98W07	24N53	S TERESA TAMS	50 FX	CV	100F9	0.01	157	28	13	H24		A	A	-	-	D	
359.35			30. 5.79	13. 8.79	PERICOS NL	MEX	99W43	25N43	GARZA GONZALEZ	14 FX	CV	100F9	0.01	32	29	13	H24		A	A	-	-	D	
359.35			6.12.79	17. 3.80	PESCADERO BC	MEX	110W59	23N02	TOTAN NAY	13 FX	CV	100F9	0.01	155	28	13	H24		A	A	-	-	D	
359.35			30. 5.79	13. 8.79	S JUAN DEL RIO	MEX	99W58	20N23	PINGUICA DGO	13 FX	CV	100F9	0.01	321	28	13	H24		A	A	-	-	D	
359.35			30. 5.79	13. 8.79	SANCHEZ CELIS	MEX	107W21	24N26	EL MIRADOR SIN	13 FX	CV	100F9	0.01	22	28	13	H24		A	A	-	-	D	
359.35			30. 5.79	13. 8.79	TECARIO MICH	MEX	101W32	19N13	TACAMBARO MICH	10 FX	CV	100F9	0.01	358	28	13	H24		A	A	-	-	D	
359.35			2. 5.80	18. 8.80	ACUARIO SLP	MEX	98W49	21N35	CD VALLES SLP	10 FX	CV	100F9	0.01	87	29	10	H24		A	A	-	-	D	
359.75			6.12.79	17. 3.80	AGUA DULCE VER	MEX	94W12	18N03	COATZACOALCOS	24 FX	CV	300F9	0.01	235	28	13	H24		A	A	-	-	D	
			20.11.78	15. 2.79																			

SWEDEN (continued)

PUBLIC SAFETY- SWEDEN/ FREQUENCIES

GOTHENBURG 0	CH	FREQUENCY		
POLICE	1	167.3000/159.3000	order-police	b/m
	2	167.4500/159.4500	inquiries	b/m
	3	167.6500/159.6500	special	b/m
	64	79.8125	local	b/m
	42	79.5375	inquiries	b/m
	20	79.7625	special	b/m
FIRE	1	73.2625		b/m
	2	73.3375		b/m
	3	73.3875		b/m
	4	73.4125		b/m
	5	73.1625		b/m
AMBULANCE	3	73.3875		b/m
	37	78.8875		b/m

MALMO M				
POLICE	24	79.3125	local	b/m
	1	410.0500/ 380.0500		b/m
	2	410.1500/ 380.1500		b/m
	3	410.0750		b/m
	4	410.1000		b/m
	5	410.1250		b/m
	6	410.1750		b/m
	7	410.2500		b/m
	8	411.8500	traffic-police	b/m
	9	412.4500	traffic-police	b/m
FIRE	34	78.8125		b/m
	10	78.2375		b/m
AMBULANCE	34	78.8125		b/m

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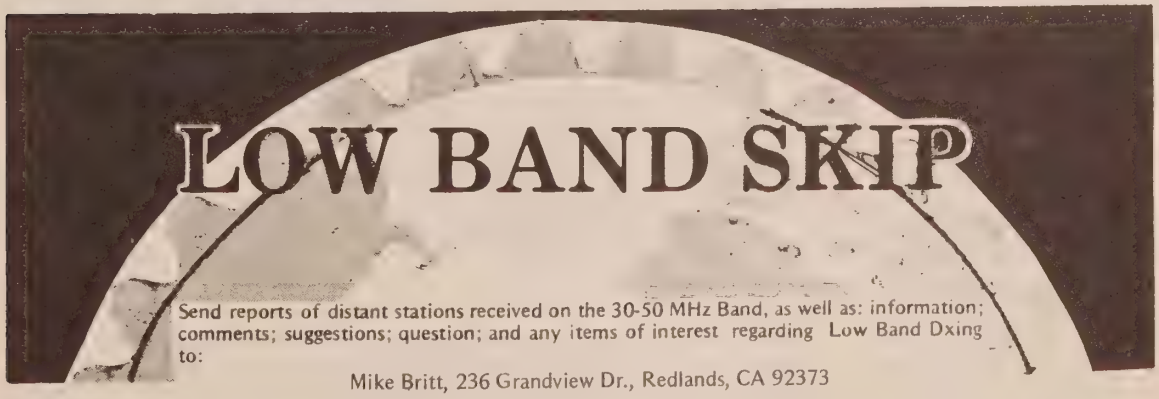
We will continue with the Scandanavian information next month. Much more to come in addition to new Mexican and Irish and UNITED KINGDOM listings in future issues! Till next month,

73's - pete


LOW BAND SKIP
Send reports of distant stations received on the 30-50 MHz Band, as well as: information; comments; suggestions; question; and any items of interest regarding Low Band Dxing to:
Mike Britt, 236 Grandview Dr., Redlands, CA 92373

Greetings!

A SCANNER FOR DXers...

There has been quite a bit of talk lately about the new A.O.R. AR-2001 scanner, a "state of the art" receiver which offers continuous, uninterrupted frequency coverage from 25-550 MHz. Both Rick Stein (RCMA International) and myself have

mentioned the unit in the past months, it first having come to our attention after being put on the market in the United Kingdom late last year.

For RCMAers in the United States and Canada, I can confirm that the new Regency MX-5000 and the AR-2001 are one and the same scanner. There was some confusion among hobbiests at first, because of so many conflicting reports about the relation of the AR-2001 and the MX-5000. I was finally convinced after talking to the people at Regency who told me that the U.S. company is indeed selling the Japanese scanner under their label.

In 1983, A.O.R., a Japanese electronics firm and maker of the AR-2001 first shipped the scanner to England. Lowe Electronics, Ltd., an English distributor of the AR-2001 informed Geoff (Eng-005) that they couldn't ship the scanner to the U.S. because of a trade agreement with the manufacturer. It turns out this was because A.O.R. had made an exclusive import agreement with Regency Electronics to make the unit available in the U.S. under the Regency name of MX-5000. The prepublicity about the MX-5000 made it sound suspeciously identical to the AR-2001, and when it was learned that A.O.R. had begun shipping the scanners to the U.S. in large quantities (yet nothing by the name of A.O.R. was advertised on the market) it was obvious something was up. Well, we were right, because now the AR-2001 is available here in America, only with a Regency face on it!

I've seen the MX-5000, and it has some rather innovative features. Despite the pluses, however, I must note there are some serious lackings — things like a very slow scan rate (only 3 channels per second) and other things which seem to be mere technical stupidity, or more probably due to the fact that the designers aren't monitor hobbiests and so don't appreciate the refined programming features (sorry, no hold button on the search mode. Very difficult to catch weak skip signals if you can't halt the search) and other conveniences we've come to expect of the better receivers. It is no surprise, however, since all new scanner models seem to have their faults.

What the AR-2001/MX-5000 lacks in physical makeup, it far makes up for in it's frequency coverage and sensitivity. A few days after I played with one of the new MX-5000's, the June issue of Monitoring Times arrived containing a nice little review of the MX-5000 (although not at all technical. Maybe Pop Comm or somebody will take one apart for us?). The Grove Enterprises publication concluded that, "the Regency MX-5000 is an outstanding scanner in two respects: frequency range and uniform sensitivity." As far as the sensitivity is concerned, the scanner is unique. Rather than using the more common 10.7 or 10.8 intermediate frequencies, the AR/MX unit uses an IF of 750 MHz, virtually eliminating image problems.

The suggested retail price of the Regency MX-5000 is $599.95, although the actual cost of the unit (wholesale) is in the $300 range. Checking around, I find that the discount mail order prices are considerably cheaper than the list price (as is usually the case). For example, Grove enterprises has a price of $399 plus shipping, and Scanner World, USA in Albany, N.Y. offers the unit for 369.99 plus $5.50 shipping. The best price I've found (as of the last week in June) is from Communications Electronics in Ann Arbor, Michigan, which has the MX-5000 for $359.00 plus $5.00 shipping. I have dealt with CE and found them to be both efficient and reliable. They have a toll free number of 800-521-4414 for info. and ordering. The Bottom line is that it pays to shop around. Even some of the local discount product centers can meet or beat mail order prices when there is a sale. Remeber, however, that if you buy by mail (ship UPS, not US mail) from out of state, you avoid state sales taxes, which, depending on where you reside, can be a tidy sum indeed.

While it is not my purpose to fully review the MX-5000 here, I do think the scanner is of great interest and significance if you are interested in un-interupted VHF frequency coverage as well as the ability to select between AM/FM, narrowband/wideband modes. A good equipment review of the MX-5000 appears in the June, 1984 issue of Popular Communications magazine (If you can't get ahold of that issue, feel free to write this editor for a copy).

From the mailbag...

*From Jim Sokol (CA-SF-030): Jim reports on one of the large (and among the last) F_2 solar skiO openings heard this last winter. It occurred on 24 February 1984 from 11:30 to 14:30 hours, PDT. Stations Jim heard were from PA, MD, NC, FL and some brief Spanish. Jim states, "being from Pennslyvannia originally, I still recognized some of the stations"...

33.70 - "Westmoreland 911" , Westmoreland Co., Pa. FD
33.74 - KGH770, Lebanon Co., Pa. FD
33.80 - Ambulance Dispatch "Swatara TWP, Near Bressler": Dauphin Co., Pa.

33.82 - KGC712 Butler Co., Pa. FD
33.94 KGD237 Temple, Pa. FD
33.94 KNBX247 Berks Co., Reading, Pa. FD

33.94 KVG839 Southwest Pasco FD, New Port Richey, Fl.
35.80 KIU925 Davis Bros. Inc, Forstproof, Fl.
35.84 KWB313 Country Pride Foods, Hurlock, Md.
35.88 KBW318 Burgermiester &Bell, Owings Mills, Md.
35.88 KVR291 Piedmont Train/air cargo, Raleigh, NC.
35.88 Spanish language

Jim says the three stations on 35.88 were all being heard at once. The Spanish sounded like dispatch to mobile, with numbers heard.

TYING UP A FEW LOOSE ENDS

*UK TV frequencies...

Back in the November, 1983 Low Band Skip Column, a list of overseas T.V. freq.s from Jim (Pa-057) was printed. Apparently, that information was rather dated, as Geoff (ENGL-005) was promted to write and tell me:

"The ONLY Band I freqs in use are operated by the BBC, Channel 1, and they all send out the same programme, except for perhaps half an hour's regional news daily. Hours of operation - 06:00 to 23:59 daily (sometimes extended to 01:00). These are the original 405 line rxs, all monochrome. They cover 12 different regions of the UK and each region has one 100 kW tx, plus a number of low power 'fillers' for valleys. So it would not be possible for anyone in the States to know which tx he was hearing. This old service will be closed down completely by 1986."

BBC, Channel 1:	Sound	Vision
	41.5	45.0
	48.25	51.75
	53.25	56.75
	58.25	61.75
	63.25	66.75

Note: these freqs refer to the UK only. The status of the other TV freqs listed in Oct. 83 LBS is unknown.

Geoff adds: "41.5 has often been heard in South Africa. Those freqs quoted in your column such as 41.547 and 41.48, 41.52, etc., don't exist. They are obviously incorrectly tuned on the receiver."

For your interest, the BBC service started in 1937. You could buy a seven inch screen TV then. It closed when the war started. It reopened after the war, of course."

George DuBois also wrote and he asks if any RCMA member has ever gotten a QSL from the BBC. He says: "I've gotten the 41.5 many times, plus the offset transmitters, too! I wrote once a few years ago and all I got was a blank post card. Really swell." (Editors note: I have some of those blank QSLs in my collection. How about you other SWLs/Hams? I thought about doing an article on QSLs gone afoul with the title:" ".) A number of WFTDA (Worldwde FM and TV Dxers Association) have gotten QSLs from the BBC. WFTDA has had numerous articles on foreign TV Dxing in the past and a number of their members use imported sets, as Jim had inquired (see Nov. '83 LBS). Of course, the opportunity for such European Dx won't really come again (for North Americans) until the next skip cycle, and by then the BBC will have vacated the low band. The French audio may still be there, however. In any case, remember that the signal is AM (which makes a receiver like the Regency 5000—AKA AoR—a nifty thing to have, with it's ability to switch from AM - FM).

* Recalling a mystery repeater....46.12 MHz

Little has been said about the mystery skip which, in the past, has been heard on 46.12. Because of the declining sunspot activity and the resulting decline in solar F_2 layer skip, the "mystery repeater" on 46.12 has rarely been heard for the past couple of years. While I, myself, had logged Spanish receptions on this freq. I only became aware of the fact that there was a repeater on 46.12 after receiving a letter from Sol (NY-209) several months back. Since that time, I have done some investigation, and come up with what seems to be a sound solution (pun intended) to the strange transmissions heard by Sol and others.

The mystery began back in 1979, when Sol, who lives in the Bronx, New York and is an F.D.N.Y. dispatcher, first heard the North Carolina Highway Patrol—being repeated over 46.12 MHz, a local fire frequency in nearby Nassau County, N.Y. Then, on 12 November 1983, at about 13:00-14:00 EST, Sol again heard the NCHP transmissions on 46.12. In describing these transmissions, Sol states, "I have heard base point to point and mobile talkback through a repeater. Without question it is the NCHP. The place names confirm this. While it was hard to understand the call

letters, I believe most were in the KIL series with numbers like 550, 546, 523, etc. I tried some different ways to ID the true frequency but to no avail."

In checking on the KIL series call signs, the only thing I found were for 72-75 MHz link freqs, and all had two numbers, not three. The only close match: KIL55. While I can't be 100% certain, I would think it most likely the calls were other than KIL, such as KIB, etc. Having heard the NCHP radio calls, I can see how Sol might have had difficulty—and even moreso with a repeated transmission. (No offense North Carolina members, but there is a distinct accent that sets your region apart from areas of the U.S. Of course, this reminds me that we all have our "accents" and brings to mind my mom's relatives in New Mexico and Texas. It was one of the younger ones who asked me why I talked so fast. But then, he had never met anyone from New Jersey or New York!).

As has been the case with most "Mystery repeater" receptions, it seems 46.12 is the output frequency for a repeater located somewhere in South America. Although Sol did not report ever hearing Spanish on 46.12, RCMA International editor Rickey Stein (NJ-001) in recently researching his logs and compiling a composite list of foreign skip, indicates that he too heard the NCHP skip repeated on 46.12—but Rickey heard Spanish as well.

While Sol thought that perhaps a NCHP 72-75 MHz link was being picked up and repeated (a theory supported if the KIL series call signs could be verified) the more extensive call sign loggings from Rickey Stein led to the more likely conclusion that the NCHP signals were being repeated from a 42 MHz NCHP frequency. This would be very much like the case of the 36.90 South American repeater which has been often heard rebroadcasting U.S. fire traffic from 33.90. In the instance of 46.12 however, the input seems to be 42.62 MHz (a spacing of 350 KHz between input and output freqs). As with 36.90 and other such repeaters, the phenomenon results when skip from the U.S. is accepted by the South American repeater, which then rebroadcasts that skip from the input (42.62) to the output (46.12). This second signal then skips back to the U.S.

Sol says, "I have received this on my BC250, BC210 and others have told me that they have also heard this skip. Going through the early issues of RCMA (since 1-81) I found no mention of this skip. The 46.12 NC skip seems to develope in late fall and runs to about late January or early February." (Editor's note: this time span is very typical of F_2 skip. Such "long-haul" skip is seasonal, related to the solar cycle). "It may run from)7:00-13:00 hours, EST. Sometimes it's regular, some days more than others, then gone for several days, weeks, then it reappears again."

As Sol's description indicates, the 46.12 skip has been heard when F_2 skip has reached above 46 MHz. This explains the lack of reports recently, since such skip has rarely reached as high as 46.12 because of declining sunspot numbers.

Such mystery repeaters as 46.12 allow monitors to hear "local" xmissions on an entirely different freq. Many listeners have simply passed off the occurances as a harmonic problem made worse by skip. Actually, what they are hearing are signals which, with the aid of a repeater in another country, may have traveled as much as 6,000 miles, roundtrip!!

If one were to listen to the actual xmission and the repeated xmission simultaneously (as I have done with 39.48 Los Angeles Co. Sheriff and 33.475 Nicaraga repeater), the distance involved produces about a half-second delay between actual and repeated broadcasts. the result is an eerie echoing effect.

From the logs of R. Stein (NJ-001): 46.12 MHz Spanish and repeated skip from North Carolina H.P.

last date activity monitored: 04 March 1979 EST:1400

calls from NCHP:

- KIB438 - Uhwarie: (42.62);42.64
- KIB439 - Greensboro: 42.5;42.52;42.6;(42.62);42.64
- KIB897 - Elizabethtown: 42.5;42.52;42.6;(42.62);42.64
- KIB898 - Mt. Mitchell: (42.62)

Call Sign and freq. info for NCHP verified by use of FCC microfiche (1982 Call sign index) and RCMA Newsletters: Mar '81, pp.15-20: Public Safety East, feature on NCHP;June '84: Public Safety South East, NCHP feature (thanks to William Mauldin for extensive freq. and call sign info in his article)-Editor.

Marketplace

Gary M. Darcy, Editor

Members may advertise, free of charge, items wanted, items for sale, and items for trade that are associated with the hobby of monitor/utility radio listening. No dealer ads will be accepted for this column. RCMA assumes no responsibility for the outcome of any transactions between members resulting from ads printed in this column. Send to:

RCMA MARKETPLACE, c/o Gary M. Darcy, P.O. Box 1329, Palmdale, CA 93550.

Please be sure to include your membership number.

All Marketplace ads will be accepted ONLY on special forms available from this column's editor. Send a self-addressed STAMPED envelope (business size) to the address above to receive a supply of forms. Foreign members do not need to include postage on envelopes they send.

FOR SALE: Bearcat 210XL. 18 channel programmable in original carton with all accessories. $175.00. Contact: JAMES BROADBENT (MA-024), 127 Birchbrow Ave., North Weymouth, MA 02191 or phone 617-335-4441. (6-20-84)

FOR TRADE: Panasonic RF-3100. Will trade for Bearcat 220 or Regency ACT-T-720 digital flight scanner. Contact: DANNY O'BRIEN (CA-LA-540), 5437 W. Lemon Grove Ave., Los Angeles, CA 90038 or phone 213-467-0627. (6-19-84)

FOR SALE: Radio Shack PRO-2020. Includes AC power cord, whip antenna, and instructions. $175.00. Contact: DAN RAMOS (CA-OR-275), 19201 Coenson Circle, # B, Huntington Beach, CA 92648. (6-18-84)

FOR SALE: Military GRC-168. Solid state; 3500 channel receiver; 225-399.95 Mhz; synthesized; runs on 115 VAC/60 Hz. Good condition. $350.00. Contact: MICHAEL MURPHY (CA-SD-033), 11621 Valle Vista Rd., Lakeside, CA 92040 or phone 619-561-2726. (6-14-84)

FOR SALE: Microfiche reader with 1984 D.O.C. microfiche and 40 pages of call letters identifying some Government frequencies (country wide). $200.00-Canada or $159.00-U.S. Contact: GILLES THIBODEAU (CAN-101), 3653 Montcalm St., Lac-Megantic, Quebec G6B 2H8 Canada or phone 819-583-1817. (6-26-84)

FOR SALE: Bearcat 100. Hand-held programmable scanner; excellent condition; all accessories plus telescoping antenna. $175.00. Contact: ROBERT BERGGREN (MI-133), 6300 W. Michigan Ave., Apt. A-11, Lansing, MI 48917 or phone 517-323-9291 (nights) or 517-694-8141 (days). (6-28-84)

FOR SALE: Regency D-300. Includes power cords, antenna, factory carton, and owners manual. One year old; excellent condition. $135.00. Contact: JEFF LIBERMAN (IN-060), 1515 Jackson Ave., Evansville, IN 47714 or phone 812-477-1343. (6-30-84)

FOR SALE: Bearcat BC-250. Includes antenna, mobile mount, manual & original box. Will ship UPS. $200.00. Contact: DON HAWKINS (CA-OR-157), 14002 Windsor Pl., Santa Ana, CA 92705 or phone 714-544-3553. (6-22-84)

FOR SALE: Bearcat BC-101. Includes antenna, mobile mount, manual & original box. Will ship UPS. $125.00. Bearcat MPS 403A mobile power supply available for additional $25.00 if wanted. Contact: DON HAWKINS (CA-OR-157), 14002 Windsor Pl., Santa Ana, CA 92705 or phone 714-544-3553. (6-22-84)

FOR SALE: Regency M-400. Programs out of band. Includes mobile hardware, antenna, manual & original box. Will ship UPS. $200.00. Contact: DON HAWKINS (CA-OR-157), 14002 Windsor Pl., Santa Ana, CA 92705 or phone 714-544-3553. (6-22-84)

photo department

Send photographs of custom monitor listening posts, unusual or extensive monitor or two-way antenna systems, user station consoles (PD, Fire, Paramedics, etc.) or other monitor/two-way related equipment of interest. Photographs must be 3 x 5 inches or larger, black-and-white with good contrast, sharply focused and attractively composed. Each photo must be accompanied by details and explanations of equipment. Photos will not be returned. If you have questions, write first and please include an SASE. Send photos or write to:

Hugh Stegman, 11622 Exposition Blvd., #2, Los Angeles, CA 90064

Kind of a grab-bag column this month, due to lack of member contributions and time commitments with the Olympics, etc..

Photo Dept continued

First shot shows a compact sound setup used by Universal Studios on the latest Chevy Chase feature. Everything needed to record the actors' dialog in perfect sync with the camera fits onto this little cart. It is simply rolled to the next setup. Twenty years ago, a semi-trailer would have been needed, and the results would not have been as good. Hand-held cameras were around in Edison's time, and it was really the advances in sound that made modern movies possible.

The box in the foreground with the antenna holds four Vega receivers for wireless mikes. This is the neatest such setup I've seen. Very small FM transmitters, with high-quality condenser mikes, are worn under the actors' costumes (no nude scenes!). The camera people are happy, because they don't have to work around the mike boom, which is kept farther back or not used. The producers are happy because a crew of 200 people is not kept waiting (at union scale) for sound.

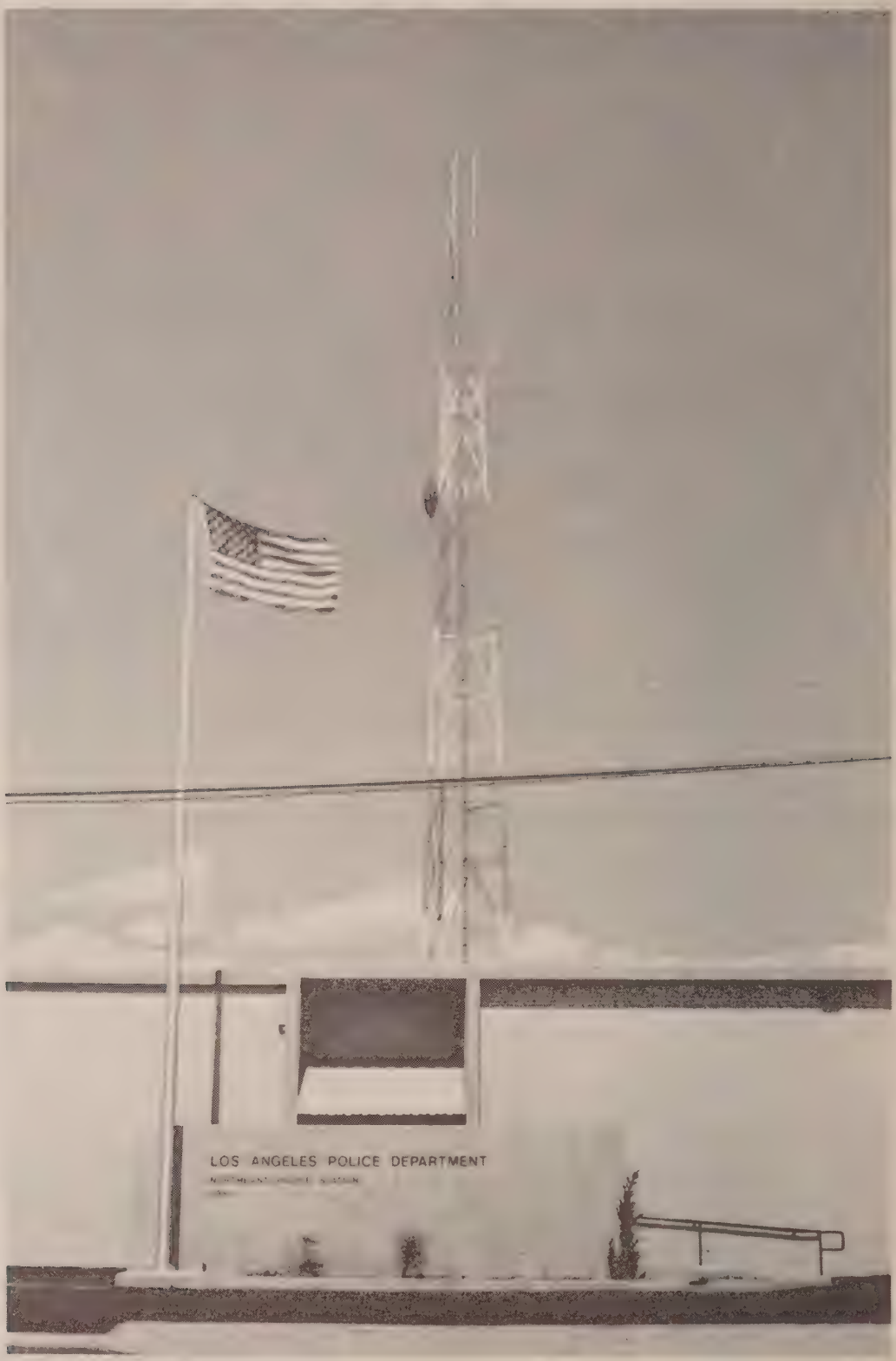
The pole to the left is a lightweight, hand-held mike boom. In back of that is the Nagra tape recorder, which is not really visible with its cover closed. This $6000 Swiss machine is about the size of a phone book, and it replaces several rack panels full of gear. The problem of tape slippage made sync impossible until this machine came out, and huge magnetic film decks were used instead. Now the Nagra superimposes two crystal-generated "pilot" tones on the full-track audio recording. Servo-loop circuits correct playback speed. Similar circuits control camera speed.

Under the hand is a compact, custom-built mixing board. Different studios use different setups. Sound mixing can get complicated with the multiple mikes in use, and takes experience to get a natural sound.

Wide-range scanners in the area would have picked up the actors' lines. Frequencies were in the 180-181 MHz band.

$$$

Photo Dept continued
TV shows then anyone can remember. "Hill St. Blues" does some pickup shots there, although the station in the long views is in the east.



The new LAPD station, about a tenth of which shows here, is a lot less photogenic, but a lot bigger and more efficient. The tower is for UHF "Rover" base/repeater antennas. This division is cut off from the rest of the city by hills, and the greater number of voting receivers and bases used by the UHF system helps eliminate dead spots. Units using the old VHF gear were known to disappear altogether.

See you next month. Hope you're having a good summer.

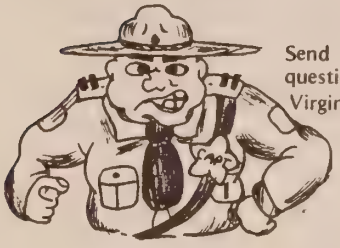
Public Safety

This column is for reporting Public Safety and Special Emergency frequency information, radio system details, radio codes, dispatch areas, unit numbering systems, etc. for police, sheriff, fire, forestry (except USFS), fish and game, highway patrol, state police, prisons, prisoner work camps, local government, highway & street maintenance, port authority/bridge maintenance, animal control, ambulances, paramedics, hospitals, life guards, ski patrol, search & rescue, flood control, civil defense and disaster organizations. Input and questions for this column must be sent to the proper regional Public Safety editor listed below.

STANDARD TEN SIGNALS

The RCMA recognizes that most Public Safety Departments use "ten signals" as a part of their standard communication procedure. Our editors will not print the more common signals, which are listed below, but will note additions and differences when listing a departments "ten signals". By not having to print the below listed signals repeatedly, we will save valuable space for additional data. Only differences and additions to this listing will be noted by editors. Please refer to this listing when monitoring. Any corrections or additions will be noted during coverage by the editor.

10-1	Receiving poorly	10-33	Emergency
10-2	Receiving well	10-36	Correct time
10-3	Stop transmitting	10-41	Beginning duty tour
10-4	Okay, acknowledgement	10-42	Ending duty tour
10-5	Relay	10-43	Information
10-6	Busy	10-50	Accident (F, PI, PD)
10-7	Out of service	10-51	Wrecker needed
10-8	In service	10-52	Ambulance needed
10-9	Repeat	10-55	Intoxicated driver
10-13	Weather / Road conditions	10-56	Intoxicated pedestrian
10-18	Quickly	10-57	Hit & run accident (F, PI, PD)
10-19	Return to ----------	10-70	Fire alarm
10-20	Location	10-71	Advise nature of fire
10-21	Call ------- by telephone	10-72	Report progress of fire
10-22	Disregard	10-73	Smoke report
10-23	Arrived at scene	10-74	Negative
10-24	Assignment completed	10-76	Enroute
10-25	Report in person to ---------	10-77	Estimated time of arrival
10-27	Drivers license information	10-82	Reserve lodging
10-28	Vehicle registration information	10-88	Telephone number of ------
10-29	Check for wanted	10-99	Wanted / Stolen is indicated
10-30	Unnecessary use of radio	10-0 / 10-100	Use caution



PUBLIC SAFETY — SOUTH EAST:

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows — Florida, Georgia, N. Carolina, S. Carolina, W. Virginia, and Virginia:

William Mauldin, 2268 N.W. 30th Rd., Boca Raton, FL 33431

PUBLIC SAFETY SOUTHEAST

This month Public Safety Southeast covers:

Monitoring Western Tampa Bay FL - Feature Article

Updates: Key West FL; Indian River FL
Fla Fish & Game - Fla Forestry Data
Palm Beach County FL; Richmond & Goochland Co. VA
Virgina Beach, Norfolk Area
Georgia Forestry; Cobb County GA

MONITORING WESTERN TAMPA BAY, FLORIDA

From Joe, MD-015: The following updates and general information should bring everyone who monitors Greater Tampa / St. Petersburg completely up to date! We thank Joe once again for his continued contributions!

Clearwater FL Police: KIB216

F1	460.275 MHz	Police West Dispatch	(Sometimes F2 and F3 reverse
F2	460.425 MHz	Police Cks & Info	assignments if short dispatchers)
F3	460.475 MHz	Police East Dispatch	(East and West combine on F1 if
F4	460.100 MHz	Police Administration	short dispatchers)

2 and 3 digit units are patrol beat; last digit ending in even number indicates westside patrol; an odd last digit indicates east patrol assignment. "S" units are reserve police officers; 400's are Sgts; 500's are Lts; 600's are detective.

Code 1	Emergency	Code 6	Bomb threat
Code 4	No assistance	Code 7	Out for meal
Code 5	Registration check	Code 8	Mental case

(Other than the above code numbers, all other information is dispatched uncoded.)

Clearwater FL Fire: KUN489 460.600 MHz

Clearwater FL City: 453.425 MHz & 153.530 MHz

Life Guards: 154.400 MHz
Towers 1 thru 4 are south of Pier #60
Towers 6 thru 10 are north of Pier #60

Dunedin FL Police: KDP419 460.025 MHz

100's	Midnight Patrols	400's	Sergeants
200's	Daytime Patrols	500's	Special Enforcement
300's	Evening Patrols	600's	Detectives

Dunedin FL Fire: KNAD911 453.100 MHz

Station 1	Units 125 - 123 - 125
Station 2	Units 121 - 122 - 124

(Dunedin does not have ambulance or paramedics as city service. EMS Service is provided by SAS Ambulance Company, Inc.)

Dunedin City Net: 155.940 MHz Combined Services Frequency

100's	Fire Department	500's	Water Pollution
110-119	FD Lts at stations	600's	Park Depts
140's	FD Investigators	700's	Street Dept
200's	Police (rarely used)	800's	Building Dept
900's	Building Maint Dept.	1000's	Vehicle Maint Dept
1100's	City Engineering	1200's	Traffic Control

Largo FL Police: KNAQ477

F1	460.200 MHz	Police Dispatch
F2	460.300 MHz	Police Information & License checks

Largo FL Fire: (Now called "Central Pinellas", dispatched by county) controls:

Largo Fire Dept; High Point VFD; Seminole FD; Belleair Bluffs FD

L1	Lt - Station #1	Largo 100	Chief of FD Largo
L2	Lt - Station #2	Largo 200	Fire Surpression Chief
L3	Lt - Station #3	Largo 300	Chief of Training
L4	Lt - Station #4	Largo 400	Chief of Fire Prevention
L5	Lt - Station #5	Largo 500	Chief Rescue Operations
L6	Lt - Station #6	Largo 600	District Chief on duty

Belleair Fire Dept:

100	Belleair FD Chief	600	Commander on duty

High Point VFD:

200	Assistant Chief	100	VFD Chief
		600	Commander on duty

Pinellas County Sheriff:

F1	154.755 MHz	South County Dispatch	KIG503	(around St. Pete)
F2	155.640 MHz	North County Dispatch	KXZ551	(Dunedin north)
F3	154.710 MHz	Mid County Dispatch	KWF771	(Largo, Pinellas Pk)
F4	154.950 MHz	Mutual Aid, Intercity		
	154.815 MHz	Detectives	KIG503	
	154.100 MHz	County Civil Emergencies		KGU649
	154.340 MHz	County Fire Mutual Aid		KQO282
	155.340 MHz	Pinellas North County Hospital		
	153.740 MHz	Pinellas Animal & Mosquito Control		KIP525
	453.150 MHz	District Attorney		KJU271
	151.115 MHz	County Road Department		KIU870
	452.625 MHz	Pinellas Transit Authority		KVP465
	155.820 MHz	School Maint and Security		KIR823
	155.205 MHz	County School Bus Dispatcher		WRX687
	153.710 MHz	County Water Department		KDL465
	154.055 MHz	Fire Dept; St. Pete Clearwater Airport		

St. Petersburg Police:

F1	155.865 MHz	South of Central Ave Dispatcher	KZE561
F2	155.910 MHz	North of Central Ave Dispatcher	KIA439
F3	155.700 MHz	Police Detectives	KIF850
F4	154.845 MHz	Police, Special Detail Assignments	KIF850
	154.890 MHz	Police TAC #1 Frequency	KIF850
	155.370 MHz	Fla Intercity & TAC #2 Frequency	KIF850
	460.050 MHz	Police TAC #3 Frequency	KSU437

St. Petersburg Fire:

F1	154.070 MHz	Citywide Fire Dispatcher	KIB305
F2	154.205 MHz	Fireground Frequency	
F3	154.340 MHz	Countywide Fire Mutual Aid	

St. Petersburg Beach Police:

F1	460.325 MHz	Citywide Police Dispatcher	KSP251

Other local Police & Fire Departments:

Treasure Island	PD 158.790 MHz	FD 153.875 MHz
Maderia Beach	PD 154.710 MHz (SO)	FD 154.190 MHz
Indian Rocks Beach	PD 155.250 MHz	FD 154.310 MHz
Safety Harbor	PD 155.640 MHz (SO)	FD 154.385 MHz

North Pinellas County Hospital Network: 155.340 MHz

Morton Plant, Clearwater Community, Mease Dunedin, Largo Medical Center, Largo Suncoast, Lake Seminole, University General.

155.280 MHz

St. Petersburg General & Bayfront Hospital

General Emergency Medical Services:

463.150 MHz	Tampa & Hillsbrough County EMS Dipatch
463.050 MHz	St. Petersburg EMS Dispatch
463.125 MHz	Largo area EMS Dispatch
463.175 MHz	Morton Plant Hospital
463.100 MHz	Clearwater Community Hospital
155.280 MHz	St. Petersburg General & Metro General, Pinellas Park
155.295 MHz	SAS Ambulance Dispatcher Zone 8 is Largo; Zone 9 Clearwater; Zone 10 is Dunedin Zone 11 is Palm Harbor --- These are exact locations.
155.160 MHz	SAS Ambulance Dispatcher - South County Dispatch Zones: Zones 1, 2, 3 are approx. South St. Petersburg Zone 4 is St. Petersburg Beach; Zone 5 is Kenneth City; Zone 6 is Pinellas Park; Zone 7 is Seminole (These zones are only approx. locations)

General Interest Frequencies, Tampa Bay Coverage:

158.760 MHz	Pinellas Parks, DeSoto Park
154.665 MHz	Florida Highway Patrol (F1); Pinellas Dispatcher
154.680 MHz	Florida Highway Patrol (F2); Tampa Dispatcher
154.695 MHz	Florida Highway Patrol (F3); Dispatcher
154.920 MHz	Florida Highway Patrol (F4); Car to Car & Aircraft
45.000 MHz	Florida Marine Patrol (F1); District 4 Dispatcher
44.800 MHz	Florida Marine Patrol (F2)
44.760 MHz	Florida Park Rangers
451.075 MHz	Florida Power & Light - St. Petersburg area
451.125 MHz	Florida Power & Light - Largo area
451.175 MHz	Florida Power & Light - Clearwater, Dunedin area
451.525 MHz	Florida Power & Light - St. Petersburg, Oldsmar areas
48.280 MHz	Florida Power & Light - General Security
48.380 MHz	Florida Power & Light - Line Crew Repair
153.485 MHz	Tampa Electric Authority
158.190 MHz	Tampa Electric Authority

Tampa Fire Dept:

F1	154.430 MHz	Citywide Dispatcher	KIA653
F2	154.220 MHz	Fireground Communications	

Tampa Police Dept:

F1	453.550 MHz	West & Downtown Police Dispatcher
F2	453.700 MHz	East of I-275 Police Dispatcher
F3	453.800 MHz	Information and Checks

Public Safety - South East continued

F4	453.850 MHz	Police Emergency
F5	453.750 MHz	West TAC
F6	453.875 MHz	East TAC
	453.500 MHz	City Building Inspectors & Stadium Traffic
	453.600 MHz	Tampa Statium traffic control
	453.400 MHz	Tampa Airport Police & Security Dispatch

Hillsbrough County, General Frequencies:

	153.920 MHz	County Disaster Control, Primary	KGI579
	154.980 MHz	County School Board	KEV403
	453.300 MHz	County Building/Zoning & School Security	
	453.350 MHz	County Tax Assessor's Office	KCW782
F1	450.1125 MHz	WTSP TV, ABC, Channel 10, Main dispatch & cues	
F2	450.3125 MHz	WTSP TV, ABC, Channel 10	
F1	450.350 MHz	WTVT, CBS, Channel 13, Main dispatch	
F2	450.150 MHz	WTVT, CBS, Channel 13, Cues and direction	
	450.450 MHz	WXFL, NBC, Channel 8, Main dispatch	
F1	450.0875 MHz	WTOG TV, Ind, Channel 44, Main dispatch & cues	
F2	450.5125 MHz	WTOG TV, Ind, Channel 44, PM Magazine	
	173.225 MHz	Clearwater Sun, Main dispatch	
	452.975 MHz	St. Petersburg Times, Main dispatch	
	173.375 MHz	Tampa Tribune, Main dispatch	
	161.640 MHz	Q-105 Traffic Reporters	

REFERENCE NOTE: For complete data on Tampa & Hillsbrough County Police, Fire, and EMS refer to April 83 and May 83 back issues. These two editions have extensive data on frequencies, signals, codes and other important data. This information is still current and will not be reprinted here due to space limitations. See details in the front of this publication on how to obtain back issues.

SAS Ambulance Ten Signals:

10-10	Out, subject to call
10-21	Phone the office
10-23	Standby (stop)
10-24	Trouble, send help!
10-25	Send second unit
10-26	Message received
10-27	Visitors present
10-29	Unpaid bills
10-30	Against rules
10-37	Operator on duty
10-38	Police
10-39	Message delivered
10-41	Collection
10-42	Home
10-43	Any traffic for ( )
10-45	Call ( ) by phone
10-46	Urgent
10-48	End message. Did you receive?
10-50	Vehicle check

(Differences Noted)

10-51	Enroute to ( )
10-52	Estimated time of arrival
10-54	Negative
10-55	Car to car
10-56	Meet ( ) at ( )
10-58	Food stop
10-65	Copy
10-66	Cancellation
10-77	No units free
10-96	Changes channels
10-97	Arrived at scene
10-98	Mission completed

SIGNALS:

13	Request Supervisor
14	Information
15	Special Assignment
16	Convience stop

SAS Ambulance Corporation also uses ten signals to identify hospitals:

HOSPITAL IDENTIFICATION LISTING:

10-40	Bayfront	10-70	Pinellas Horizon	10-88	All Childen's Hospital
10-44	Palms Pasadena	10-80	Morton Plant	10-89	Sunbay Community
10-53	St. Pete Gen.	10-81	Clearwater Comm.	10-90	Lake Seminole
10-57	St. Anthony's	10-82	Mease	10-91	Unv. Gen. of Seminole
10-60	Tpa. Gen Trama	10-83	Suncoast	10-92	Medfield Med. Center
10-61	St. Joseph's	10-84	Largo Med Center	10-93	Med. Examiner
10-62	Tarpon Gen.	10-85	Baypines V.A.	10-94	Gateway Community
10-71	Suncoast Clinic	10-86	St. Pete. Osteo.	10-95	Ed. White
10-72	St Pete Clinic	10-87	Metro General		

Emergency Medical Codes, SAS Ambulance Company:

Response Codes

Code 0	Non-medical Transport	Code 4	Private Emergency
Code 1	Route call	Code 5	Fire / PD Immediate
Code 2	Private Immediate	Code 6	Round trip
Code 3	Fire / PD Emergency Call	Code 7	Dead person

Dispatch Information Codes

Cardio/Celebrial Vascular
101 Heart Attach
102 Cardiac Arrest
103 C.V.A.
104 Syncope/Vertigo
105 (reserved)
106 Chest pain

Respiratory
201 Asthma
202 Emphysema
203 Hypervent
204 Dyspnea
205 Apnea
206 Smoke Inhallation
207 Pneumonia
208 Airway obstruction
209 Pulmonary Edema/CHF
210 (reserved)

Shock Conditions
301 Traumatic
302 Psychogenic
303 Insulin
304 Hemorrhagic

Bone and Joint
401 Closed fracture
402 Open fracture
403 Hip
404 Cervical / Spinal
405 Thoracic
406 Skull
407 Dislocation
408 Sprain
409 Head Injuries
410 Facial

Soft Tissue
501 Laceration
502 Puncture
503 Abrasion
504 Facial
505 Genitalia
506 Evisceration
507 Eye injury
508 Amputation
509 Internial Hemorrahage
510 Avulsion

Miscellaneous
601 Acute abdomen
602 Childbirth
603 Overdose
604 Communicable disease
605 Mental
606 Cause Unknown
607 Diabetic
608 Epileptic
609 (reserved)
610 Drunk
611 (reserved)
612 Coma
613 Flu Virus
614 Drug problem
615 Convulsive/Seizures
616 Terminal illness
617 Person down
618 Infant Involved
619 Child Involved
620 (reserved)

Transport Codes
701 Route transport
702 Removal
703 Dead on arrival
704 By other means
705 Does not require ambul.
706 Patient refused
707 Bogus

Violent Injuries
801 Shooting
802 Knifing
803 Drowning
804 Electrocution
805 Poisoning
806 Assault
807 Auto Accident
808 Motorcycle Accident
809 Fall/Jumped from height
810 Animal or Snake Bite
811 Hit by automobile
812 Rape
813 Explosion
814 Suicide
815 (reserved)
816 (reserved)
817 (reserved)

Burns
901 First degree
902 Second degree
903 Third degree
904 Chemical
905 Radiation
906 Heat Exhaustion
907 Heat Stroke
908 Elevated temperature

(Editor's Note: We would like to thank Joe, MD-015, for this excellect update and summary on the west side of Tampa Bay. Joe also sent in a map showing SAS Zones, but the map was not clear enough to reproduce for the article. Thanks. Joe!)

UPDATES AND CORRECTIONS:

Bill (NAS Key West) FL-???: New Navy MARS VHF Repeater now operating on 148.975 MHz in the Key West area. Input to the repeater is .375.

Jim Buscher of Scangeek writes to advise his new address is 300 McMillan Drive, Washington, DC 20001 regarding those interested in his DC Directories.

Eric of Indian River County advises that Indian River County FL Sheriff's Office F2 (155.730 MHz) is now being used by the Detective Division and that you can now monitor their telephone patch, which is often in use on this frequency.

We would like to thank Scott, FL-069, for his update and corrections regarding Pinellas County and St. Petersburg. We hope this article shows everything correct and up to date. Double check me, Scott! All corrections and updates always appreciated!

Joe, MD-015, notes this additional data: Florida Fish & Game - in Dunedin is 151.265 MHz; Tampa site is 160.425 MHz; Orlando 151.160 MHz, 151.385 MHz, 151.415 MHz. Florida Division of Forestry - Tampa 159.330 MHz; Orlando 159.240 MHz, 159.300 MHz, 159.330 MHz; Leesburg 159.240 MHz, 159.300 MHz, 159.330 MHz. Florida Dept. of Law Enforcement in Pinellas County and Tampa are operating on 460.250 MHz and 45.460 MHz. Pinellas County School Secuity F1 is 155.820 MHz (Maint.), F2 is 154.950 MHz (Statewide Mutual Aid), F3 is 154.600 MHz (Schools) and F4 is 154.570 MHz.

Dale, FL-184, advises that IBM Security Boca Raton is operating on 153.140 MHz and 153.305 MHz. WPEC-TV, West Palm Beach, operates on 153.110 MHz. Dale advises that Palm Beach County MedComm uses 154.340 MHz for Paramedic status and call information - and 462.950 MHz is used for original call dispatching and for requesting patch to hospitals. Dale submitted an extensive listing regarding EMS in Palm Beach County, which we will print soon!

Ken, FL-???, advised that Palm Beach Medical Examiner is operating on 461.625 MHz with several other county users. Palm Beach Sheriff now using a surveillance repeater on what was simplex 155.610 MHz; Palm Beach Aviation Authority now being heard on 155.610 MHz for Airport Police; Palm Beach School Security Officers now heard operating on 154.600 MHz and 154.540 MHz - and on 453.250 MHz (Primary Security Dispatch); Palm Beach County School Busses now have 453.275 MHz in bus for help, when needed!

John, VA-078, sent us an extensive listing for Richmond Area VA fire rescue which we will print soon! John also notes that Goochland Sheriff's Office is now operating on 154.100 MHz! We will print John's complete listing soon!

Don, VA-???, writes with Virginia Beach School Board on 453.725 MHz; Seashore State Park in Virginia Beach is on 151.235 MHz; Suffolk Police use 155.190 MHz; Norfolk General Hospital is heard on 463.700 MHz; and Old Dominion University uses 464.825 MHz. Don would like to see more mall security frequencies. Anybody out there with a list?

Chuck, OH-153, submitted an extensive listing for Huntington WVA! It will be upcoming soon too! I mention this because there is so little from WVA, and I like to give all states equal coverage. It is always nice to hear from you, Chuck!

Bill, GA-026, writes with some Forestry frequencies! He saids that there is some air to ground conversation on 159.270 MHz in the Augusta - Savannnah area. Bill says that it sounds like tanker spotters. Traffic is also heard on 159.300 MHz; 159.375 MHz; 159.405 MHz; and 159.450 MHz. Anyone having information on this Forestry System should send it in. We would like to give complete coverage to the net, if possible!

Scott, GA-005, sends correction to May 84: Greater Atlanta area article which mentioned 155.790 MHz should have shown it as "MRD frequency". Scott says that all seven PDs and Cobb County use the frequency as a task force channel. With regard to the dispatch signals we printed in May 84, Signals 8, 22, 35 will often have a "g" added which means "go to". For signal 54, "a" means "auto", and for the other selected signals "a" means "attempt". The number "-4" added to select signals means "ambulance on the way". And, Signal 38D stands for illegal drugs. Thanks Scott! As always, updates are needed and appreciated!

FROM THE CAPTAIN'S DESK

In the reader survey recently, many of you asked two questions that I have not yet had the space to answer. I hope we can sneak it in this month:

Regarding the delay in printing updates and corrections, remember what you are reading this month (September 84) is actually being written in June. At present, the time delay is just part of the process. All items submitted will be printed and are appreciated. If known, when I send out the acknowledgement pϕtal card, I will usually tell you when you can expect your data in print. Sometimes, with long articles, I get information from several members, and just acknowledge without giving a date. I do appreciate any and all contributions, so even though it seems like a delay in printing them, they will help to make our column better, so keep up the cards and letters!

Several have asked where they can get a complete listing of all frequencies, on all USA areas, on all services. This is possible. You can get information on the prices of what is available by contacting Mr. Stu Weissman at 703-487-4807. The data is available from the following address:

U.S. Department of Commerce
National Technical Information Service
5285 Port Royal Road
Springfield, Virginia 22161

The data is usually available on Microfiche. I am listing some catalog numbers that you might ask about when writing or calling...

PB-84-91930; PB-84-919401 (Complete package at $266.50!);
PB-84-902301; PB-84-902401; PB-84-902501.

The column here is written with Superscripsit™ on a Radio Shack TRS-80™ Model III 48K computer with two disk drives. It is printed with a Radio Shack DMP2100 dot printer.

Recently, in doing some search scanning, I picked up a body transmitter which was attached to a detective with one of the local police departments. The body transmitter, which was on all the time so as to transmit all conversations during a demonstration of the gear, was received and retransmitted by a mobile repeater in the officers car. This unit was operating on 168.0115 MHz and was easily readable with my Bearcat 300 (with an outside antenna). These units are being marketed by one of the major police supply firms and will be widely used, and although the frequencies might change from assignment to assignment, they are fun to listen to! When you run up on something like this, you know you are really "searching"!

The new cordless telephones will be operating both sides of the conversation on the low band frequencies! You will start hearing them soon if you search around the assigned parts of 43 MHz and 45 MHz. You have been seeing the older phones highly discounted recently because the range on the new low band phones will be much greater, offer PL to keep out interference, and offer static free conversations. Listen for them, if it interests you!

UPCOMING RADIO SHOWS:

September 1 and 2:	BIG ONE! Cleveland County Fairgrounds, Shelby NC (Admission $4.00 at the gate - listen on 147.240 MHz)
September 8 and 9:	*Central Ga. Hamfest, Warner Robbins, Ga.
September 8 and 9:	*Swapfest & Picnic at Cleveland TN
September 9	*Hamfest at Gathersburg MD
September 15	*WCARS II Swapfest, Greenwood SC
September 16	*Hamfest, Augusta GA
September 23	*Hamfest, Gainesville GA
September 22 and 23	ARRL Convention and Computerfair - BIG ONE! Virginia Beach Pavillion - $5.00 admission both days!
September 29 and 30	KY ARRL Convention & Hamfest Louisville, KY - BIG ONE!

(*Indicates date based on last years event. Monitor local ham communications on VHF for more detailed information! We thank SERA and the Repeater Journal for this data!)

This column is the result of contributing members. This editor wishes to thank all who have submitted material, updates, corrections or comments which have made this month's column possible. Your personal contribution will be greatly appreciated. Let's hear from YOU! 73's, Bill.

PUBLIC SAFETY — SOUTH CENTRAL:

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows — Alabama, Arkansas, Louisiana, Mississippi, Tennessee, Oklahoma, and Texas:

Ken Pehl, 108 E. Centre St., Fredericksburg, Texas 78624.

Hello there. I guess this is the September issue. I have been so busy that I have lost track of what "month" this is supposed to be.

For the first news material this month, we continue our focus on Louisiana and specifically the World's Fair.

From KEVIN, TX-141: Kevin visited the Louisiana World Exposition recently and found the following frequencies to be in use in and around the fair.

460.450 Exposition Security
460.325 co-ordination with New Orleans PD. This is actually a NOPD channel. Exposition supervisors and the LWE Security base are equipped with this channel.
453.450 Med-Com (LWE first aid and fire units)
453.575 LWE Maintenance
154.515 various LWE vendors
154.540 " " "
154.570 " " "
154.600 " " "

Thanks for that report, Kevin. We sure do appreciate your taking the time to report this to us.

From the Louisiana Frequency Exchange, Trey Oliver editor: We now present another installment from the Louisiana Frequency Exchange Bulletin, as we recently started to do in order to cover the World's Fair. I think you are going to enjoy this article as much as I did when I first read it.

From the May/June issue Louisiana Frequency Exchange Bulletin (reprinted with permission):

1984 World's Fair Frequency Guide

While visiting New Orleans this summer during the World Expo, our out of state and out of town radio enthusiasts might find this listing helpful. Many of these frequencies were submitted by Tom and Noah, our New Orleans contacts. The remaining were taken from our master files. The first few are subject to confirmation and we'll certainly keep our readers and listeners posted of any changes:

461.450 LWE Construction Crews
460.350 LWE Management
460.450 (State of La. licensee) Law Enforcement Security
460.410? LWE related/exact use unknown (460.4125 meant?)
464.1875 LWE " " " "
463.775 New Orleans East Towing
154.085 New Orleans Health Dept.
464.775 New Orleans Marine
464.925 New Orleans Marine (mechanic's shop)
461.975 New Orleans Steamboat (dispather/security)
155.145 St Bernard Parish Port & Harbor
452.975, 453.000, 173.375 Times Picayune

NOPD The New Orleans Police Department serves Louisiana's largest city; An estimated population of 560,000. With approximately 1,100 personnel, the Crescent City's men and women in blue are faced with a wide variety of both daily and seasonal duties. The annual celebration of Mardi Gras alone is enough to give officers a years worth of excitement. "During those ten days of balls, masquerades, parades and other festivities, the camaraderie within the ranks of the officers is almost that of a military unit in battle action." said one (NOPD) patrolman. "Our experience in crowd control is probably unparalleled." remarked a female officer. "And the worst is still to come with the influx of tourist during the 1984 World's Fair." commented a public relations officer.

This issue we take an upclose profile of the NOPD's operational and communication procedures.

NEW ORLEANS POLICE DEPARTMENT

FREQUENCY ALLOCATION

460.025 NOPD Channel one/Districts 1 & 8 (KKC626)
460.050 NOPD Channel two/District 2
460.100 NOPD Channel three/Districts 3 & 7
460.125 NOPD Channel four Car-to-car
460.200 NOPD Channel five/Districts 4 & 5
460.225 NOPD Channel six/District 6
460.300 NOPD Channel seven Tactical
460.325 NOPD Channel eight Felony Action Squad
460.400 NOPD Channel nine Internal affairs
460.500 NOPD Channel twelve Phonepatch

ADDITIONAL LISTINGS

153.875 University of New Orleans (Security)
154.785 NOPD Harbor Patrol
155.795 NOPD Harbor Patrol
453.425 Superdome Police
453.525 Delgado Jr. College (Security)

Public Safety - South Central continued

453.675 NOPD Bridge Authority Police
453.400 NOPD Bridge Authority Police
453.775 Superdome Police
463.200 Tulane University (Security)

NEW ORLEANS POLICE DEPARTMENT RADIO UNIT NUMBERS

The following data is not complete, this is only to give the listener somewhat of an idea of the departments operational layout. (These unit, department, division and officer assignments are very much subject to change)

Car #	Assignment
1	Mayor, City of New Orleans
2	Superintendent of Police
3	Deputy Chief
4	Deputy Chief
5	Deputy Chief for Mayor Offense Bureau
6	Chief Administrative Officer
7	Aide to Superintendent
19	Base Station, Emergency Operations Command Center
20	Supervisor, Field Supervisors
21-23	Field Operations Bureau
24-28	Field Supervisors
29	Base Station, FOB
30	Catholic Chaplain
31	Protestant Chaplain

Car #	Assignment
500's	5th District
600's	6th District
700's	7th District
800's	8th District
900's	Urban Squad
2270	Ecology Squad
1844	Bomb Tech.
1900	Reserve Chief
1901-2099	Reserve Officers
2171-2198	Mounted Section
2273-2298	K-9 Corps
2401-	

Public Safety - South Central continued

33-38	Superintendent's Office
39	Base Station, Superintendent's Off.
40-48	City Attorney's Office
50	Technical Support
60-69	IAD
70-79	Complaint Section, IAD
80-89	Applicant Investigation Unit
90-99	Patrol Division
100-199	First District Units
200-299	Second District Units
300-399	Third District Units
400-499	Fourth District Units
2479	Juvenile Division
2480-2489	Civil Defense
2490-2499	Coroner's Office
2510-2549	Vice Crimes
2760-2769	Crime Prevention
5300-5349	Harbor Patrol
6003	Amtrak

CITY OF NEW ORLEANS
POLICE COMPLAINT SIGNALS:

14	AMBULANCE ENROUTE
15	CITIZEN HOLDING A SUSPECT
17-F	FUGITIVE ATTACHMENT
17-J	JUVENILE ATTACHMENT
17-M	MUNICIPAL COURT ATTACHMENT
17-T	TRAFFIC ATTACHMENT
18	TRAFFIC INCIDENTS (OTHER THAN THOSE DESIGNATED BY SIGNAL CODE)
19	DRUNK
20	AUTO ACCIDENT
20-A	AIRPLANE CRASH
20-F	FATAL ACCIDENT
20-I	INJURY ACCIDENT
21	COMPLAINT
22	DISPERSE SUBJECTS
23	TRAFFIC CONGESTION
24	MEDICAL EMERGENCY
25	CALL DISPATCHER
26	POLICE OFFER
27	ATTEMPT CRIME
28	INCITING A FELONY
29	DEATH
29-S	SUICIDE
30	HOMICIDE
30-C	HOMICIDE BY CUTTING
30-S	HOMICIDE BY SHOOTING
34	AGGRAVATIED BATTERY
34-C	AGGR. CUTTING
34-S	AGGR. SHOOTING
35	SIMPLE BATTERY
37	AGGRAVATED ASSAULT
38	SIMPLE ASSAULT
39	NEGLIGENT INJURY
42	AGGRAVATED RAPE
43	SIMPLE RAPE
44	AGGRAVATED KIDNAPPING
45	SIMPLE KIDNAPPING
51	AGGRAVATED ARSON
51-B	BOMB SCARE
52	SIMPLE ARSON
52-E	EXPLOSION
52-F	FIRE
54	PLACING COMBUSTIBLE MATERIAL
58	CONTAMINATING WATER SUPPLIES
59	CRIMINAL MISCHIEF
59-P	TAKING TEMPORARY POSSESSION
60	AGGRAVATED BURGLARY
62	SIMPLE BURGLARY
62-A	ADT (SILENT ALARM)
62-B	BUSSINESS BURGLARY
62-C	THEFT FROM INTERIOR OF AUTO
62-R	RESIDENCE BURGLARY
62-S	SAFE BURGLARY
63	CRIMINAL TRESPASS (PROWLER)
63-S	SIT-INS
63-A	AIDING AND ABETTING SIT-INS
63-D	DEMONSTRATION
64	ARMED ROBBERY
64-G	ARMED ROBBERY (GUN)
64-K	ARMED ROBBERY (KNIFE)
65	SIMPLE ROBBERY
65-P	PURSE SNATCHING
66	EXTORTION (THREATS)
67	THEFTS
67-A	AUTO THEFT
67-B	THEFT OF BICYCLE
67-C	THEFT FROM EXTERIOR OF AUTO
67-P	PICKPOCKET
67-S	SHOPLIFTING
68	UNAUTHORIZED USE OF MOVABLES
69	POSSESSION OF STOLEN PROPERTY
71	ISSUING WORTHLESS CHECKS
72	FORGERY
80	CARNAL KNOWLEDGE OF A JUVENILE
81	INDECENT BEHAVIOR
82	PROSTITUTION
83	SOLICITING FOR PROSTITUTION
84	PANDERING
87	ABORTION
89	CRIME AGAINST NATURE
90	GAMBLING
90-C	GAMBLING BY CARDS
90-D	GAMBLING WITH DICE
90-H	GAMBLING BY HANDBOOK
90-L	GAMBLING BY LOTTERY
90-P	GAMBLING BY PINBALL
91	UNLAWFUL SALES TO MINORS
92	CONTRIBUTING TO THE DELINQUENCY
93	CRUELTY TO JUVENILES
94	ILLEGAL USE OF WEAPONS(DICG. FIREARMS)
94-F	FIREWORKS
95	ILLEGAL CARRYING OF WEAPONS
95-G	ILLEGAL CARRYING OF WEAPONS (GUNS)
95-K	ILLEGAL CARRYING OF WEAPONS (KNIFE)
97	PICKETING
98	D.W.I.
99	RECKLESS DRIVING
100	HIT AND RUN
101	DESECRATION OF GRAVES
102	CRUELTY TO ANIMALS(MAD ANIMALS)
103-D	DISTURBANCE
103-F	FIGHT
103-M	MENTAL
103-R	RIOT
106	OBSCENITY (EXPOSING PERSON, ETC.)
107	SUSPICIOUS PERSON
108	OFFICER NEED ASSISTANCE(LIFE IN DANGER)
109	AGGRAVATED ESCAPE
110	SIMPLE ESCAPE
112	IMPERSONATION AN OFFICER
116	FLAG DESECRATION
118	PUBLIC BRIBERY
284	PEEPING TOM
966	DRUG LAW VIOLATION

Well done, LFE! And thank you, Trey, for allowing us permission to re-print your fine articles. I'm sure the rest of our readers agree this was most interesting.

And while we are still in the neighborhood, from MICHAEL, LA-038: Mike sent some Shreveport, La. area information.

Shreveport PD	Shreveport FD
Ch 1 453.900	Ch 1 154.310
Ch 2 453.800	Ch 2 154.445
Ch 3 453.950	Ch 3 154.355
Ch 4 453.825	Ch 4 154.400

Caddo Parish Sheriff Dept.
Ch 1 453.050
Ch 2 453.350

Bossier Sheriff Dept.	Bossier City PD
Ch 1 154.860	Ch 1 155.190
Ch 2 155.490	Ch 2 155.670

Bossier City FD
Ch 1 154.190
Ch 2 154.280

We sure do thank you, Mike, for giving us some info on a here-to-fore "mystery" area, speaking "frequency-wise", that is. This helps fill in a gap.

From PHIL, TX-97: Phil wrote a short note and from which I quote --- "In case anyone heard "Huntsville DPS" being mentioned by Houston, Lufkin, or Bryan DPS a couple of weeks ago (Ed. note: early or mid May), they had a mobile communications station set up on I45 at a weigh station north of Huntsville. The Command Post (CP) was on 154.680 and would call Houston or Lufkin DPS radio. The 10-28 returns or whatever would go back to Huntsville on 155.460, just like as if a normal mobile unit had called in. It was a L & W trooper field day! I wanted to send that along in case someone had heard this via tropo skip and jumped to the conclusion that the Huntsville DPS office was in operation with their new radio equipment. Unfortunately, that has not happened yet.

"The Texas Dept of Highways VHF high band repeaters in Houston and San Antonio are active on 151.055 R (156.135 input). Does anyone else hear these ch's L & M active in other cities around the state? If so, for what are they used? Engineering Divisions?? What?

"One final question: Can someone help me confirm 159.030 Repeater output (repeater input ?) as used by Lake Jackson PD? It is not in the 1984 Police Call and I have not checked the latest FCC microfiche. Lake Jackson is located in Brazoria County."

Thanks, Phil, for that interesting bit of info. I hope someone out there can help you out on the questions you have posed.

From BRAD, OH-138: Before Brad left Bedford, Texas (no, he didn't leave Texas. He just moved over to North Richland Hills, next door) Brad sent us this info on the Bedford area frequencies:

Bedford PD 154.845 Ch 1 primary dispatch
Bedford PD 158.970 Ch 2 simplex//car to car (base not equipped)
Bedford FD 153.860
Bedford local govt ch 453.750

Additional notes from Brad --
--Fort Worth's Harris Hospital dispatches for both Careflight Ambulance and the Hurst-Euless-Bedford (HEB) Hospital Ambulance. Using the callsign KUS 565, which according to Police Call is the Tarrant Co. General Hospital, Harris Hospital dispatches the above named ambulances on 155.400. They have also been heard on 155.340, on 155.355 calling Johnson County Hospital Emergency Room, and on 155.205

calling a Daniel Ambulance unit (Medic 54). Apparently they have several of the surrounding area's EMS dispatching channels as well.
--The Mid-Cities Ambulance, based in Bedford, handles emergency calls for the Arlington PD and FD.
--Turner Ambulance (also known as Regional Ambulance) handles calls for the North Richland Hills, Richland Hills, and Haltom City areas.
--River Oaks PD -- 153.800 main dispatch
--Daniel EMS channeling are: Ch 1 = 155.205 primary dispatch
Ch 2 = 155.340 amb/hosp net
Ch 3 = 155.280
Daniel Ambulance handles calls within Ft Worth (ed. note: I presume in addition to the Ft Worth EMS units). Daniel Amb. monitors the Ft Worth FD and FWFD monitors the Daniel EMS main channel, 155.205.

From REED, AL-22: Reed wrote to give a response to the RCMA June '84 column, page 68, concerning the matter of Mobile County, Al Sheriff Dept channels. Reed advises " **both** channels are repeater channels --
Ch 1 158.730 R out (154.650 input)
Ch 2 158.850 R out (154.755 input)
Ch 3 155.010 S state mutual aid net.

Thank you, Reed, for finally giving us the facts to set this matter straight! I am sure all concerned with this issue appreciate knowing this info for absolute certain.

From JOHN, MS-017: John sent a short list of new Hazlehurst area frequencies --
155.565 KKR 841 - Hinds County Sheriff Dept.
463.275 - Jackson Cablevision
453.300 - unknown use
450.925 - WYN radio remote pick up.

Thanks, John, for the update news!

We will now close this month's column. The column is a bit shorter this time but we shall make up for it next month. To give you a taste of up coming treats to entice you to return next month, join us when we will have a computerized roster of the entire state's County Sheriff Departments, an update of the City of Austin radio systems and whatever else might show up in the mailbox between now and then.

PUBLIC SAFETY WEST

Send Public Safety and Special Emergency frequencies, radio system details and questions for Alaska, Arizona, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington and Wyoming to:

George N. Hoggatt, 17473 E. 16th Dr., Aurora, CO 80011

****

Sorry about no column last month but without out input, I have no output. This is your column and I can't do it alone. This month is a little better but not much.

COLORADO

The Colorado Department of Public Safety is in operation. It consists of the Colorado Bureau of Investigation, The Division of Criminal Justice, The Colorado Law Enforcement Training Academy, The Division of Disaster Emergency Services, The new Division of Fire Safety and The Colorado State Patrol. So far this has made no changes in monitoring but this may change as things settle down.

HAWAII

HAWAII COUNTY FIRE Darryl Willis HI-010

The island of Hawaii (the largest of the Hawaiian Islands) is covered entirely by the Hawaii County Fire Department. There are 11 fire stations (manned 24 hours by paid fire personnel), and several volunteer stations that are manned part of the time by paid fire personnel.

The Fire Department also runs the EMS and all EMS personnel are firefighters, and respond to fire calls when available.

At present there are four ACLS (Advanced Care Life Support) Fire Rescue ambulances and one BCLS (Basic Care Life Support) Fire Rescue ambulance. They cover most of the island. The remaining part is covered by State Hospital BCLS ambulance personnel.

The island has two mountain and ocean Fire Rescue stations, one in Hilo and one in Kona, complete with rescue boats. The Fire Department uses the county helicopter (chopper 1) stationed at Waiakea Fire Station (station 2) in Hilo. The Fire Department has just under 200 paid firemen.

All apparatus contains fire radios, and the ambulances have both fire and medicom radios. All alarms - medical, fire, and rescue are broadcast on the fire radio on F-1. Mobile unit radios operate on F-2 or F-3 depending on the district and scan F-1 which has priority to hear the alarms.

F-1 transmit 154.385 repeater
receive 153.950
F-2 transmit 154.310 repeater
receive 153.890
F-3 transmit 154.445 repeater
receive 154.010
F-4 simplex 154.130 tactical fire ground
F-5 simplex 154.205 tactical fire ground

Medicom can be heard on 453.4. The medicom system here hast the capability to patch into the statewide medicom system so communications can be made to other islands.

IDAHO

IDAHO STATE POLICE name withheld by request

Idaho State Police has filed with the FCC for several new frequencies:

460.125 unknown, possibly statewide was previously assigned to Boise County S. O. but was never used.

460.500 unknown, is assigned to a few police and sheriff's's departments.

460.550 dispatch (repeated) in some (unknown) districts statewide. Previously used by State EMS to link repeaters. On March 1, 1986 this frequency becomes exclusively Police and the EMS and fire users will have to move. Is used now in ISP District 3 (SW Idaho), sometimes simulcastes with 460.100 (previous dispatch frequency]. Use in other districts is unknown.

460.525 car to car, statewide? has been heard in the North and SW parts of the state.

460.300 non-uniform investigations. sophisticated scrambling planned; possibly digital voice privacy.

460.025 Statewide "all call" All police and sheriff's departments will be able to use these repeaters. State Police will not normally use for state only traffic.

460.275 unknown has historically been car to car for ISP.

Twelve channel GE radios are being installed in the State Police vehicles to they will have capability for these new frequencies plus the 460.1 and 460.2 which have been the only statewide dispatch frequencies.

153.860 is being used for paging State Radio Techs. (at least in Boise).

OREGON

TRI-COUNTY METROPOLITAN TRANSIT AGENCY George DuBois OR-001

The last two frequencies in TRIMET's radio system have been activated. 452.325 repeater, is being used by the light rail construction supervisors as well as for limited test runs of the first delivered trains. This will eventually be the light rail operations channel.

Some activity has been monitored on Ch. 8 (452.875 simplex). This will eventually be the simplex operations and maintenance channel in the light rail yard in Gresham in suburban east Portland.

OREGON STATE POLICE George DuBois

OSP is taking delivery of 29 new Mustangs, ala CHP and WSP. The will be tested and evaluated. They have no intention of replacing their entire fleet with them do to problems with prisoner transports due to their small size.

MISC. PORTLAND George DuBois

Portland Zoo Railway - 151.665
Bess Kaiser Hospital - f1 - 151.775, f2 - 151.665

WASHINGTON

KING COUNTY Merle Combs WA-058

Merle says he is still hearing Federal Way "George" units on both 460.450 and 460.525 simulcast without change. This is in conflict to Ron Murray's report in the July issue (page 64). Can anyone clarify this?

George

PUBLIC SAFETY — GREAT LAKES:

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows — Illinois, Indiana, Wisconsin, Michigan, Kentucky, and Ohio:

Jack Waterman, 466 Kings Way, Mundelein, IL 60060

Hello! Welcome to the September edition of the Public Safety - Great Lakes Column -- assuming that I've done everything correctly. I've often read other editors write that the column deadlines bring a certain sense of "unreality" to writing for the Newsletter, but trying it for the first time is a real experience!

A brief introduction would probably be helpful. I'm your new PS-GL editor, Jack Waterman. I'm thirty-nine years old, married, with three kids and a fourth on the way. In fact, by the time this appears, number four will probably already be here. I'm a paid-on-call firefighter (basically volunteer, paid a little for each emergency response) and a Nationally Registered EMT-A. I own two Bearcat Scanners and I've been a member of RCMA for four years. My principal monitoring interests are public safety and federal agencies. I work for a very large, international health care products firm which allows me to pursue my <u>real</u> vocation -- firefighter/EMT.

I want to get my address up front, in case it didn't make it into the column heading above. Because, as Scott told you, and Brandt before him, and John before Brandt, if you don't send material in to the column, there won't be a column. Send info to:

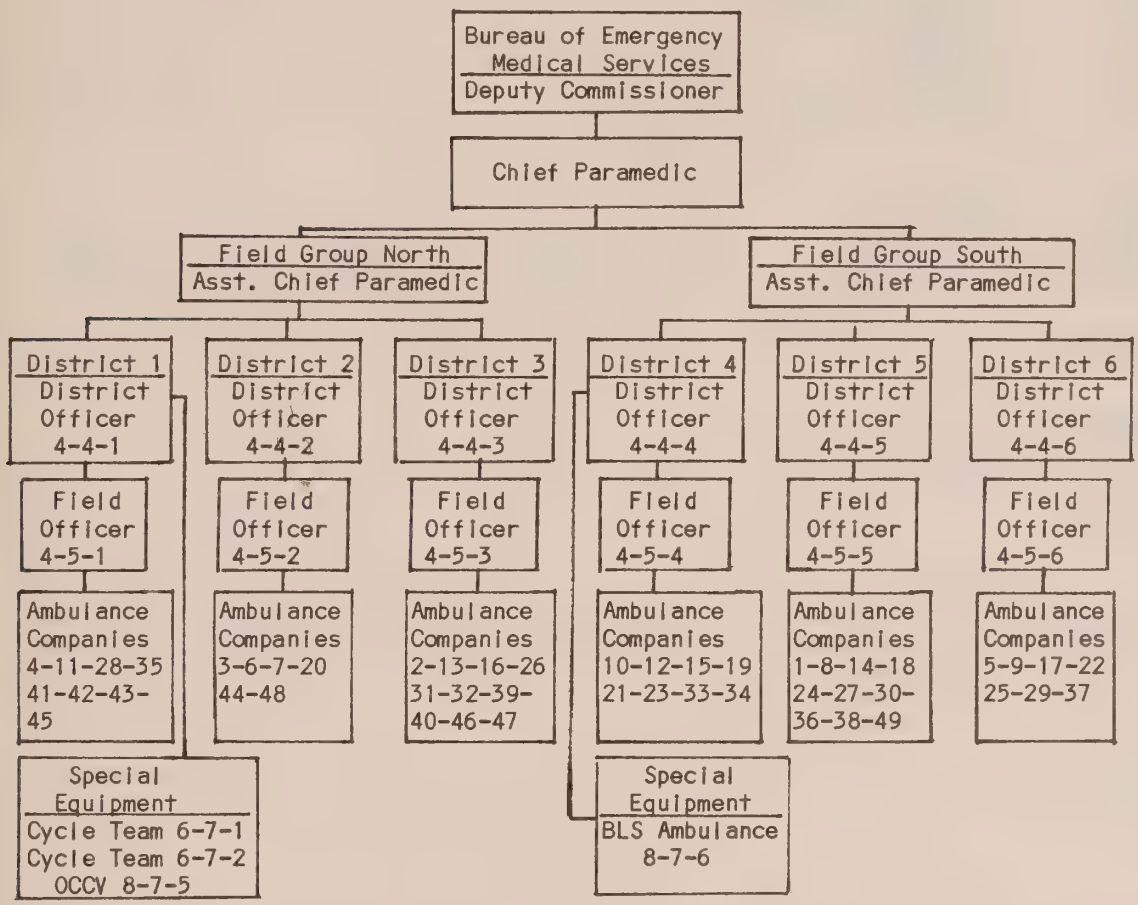
Jack Waterman
466 Kings Way
Mundelein, IL 60060

Mundelein is in just about the center of Lake County, Illinois, which is the county between Cook (Chicago) and the Wisconsin border. As this month's column is going to be limited to my personal ramblings and a few bits from my notebook, there won't be much concerning areas outside the Chicago suburbs (unless, of course, the EDITOR, Carol, has some "filler" sent directly to her by other members.)

One of the Agencies at the top of my monitoring interest list is the <u>Chicago Fire</u>

Department. A frequent correspondent and excellent source of info on CFD is MICHAEL (IL-014), who provided the following organizational table for the CFD Bureau of Emergency Medical Services. The numbers under District Officer and Field Officer are radio signatures. Note that clerical and administrative positions have been omitted from this table for space considerations:

CHICAGO FIRE DEPARTMENT
BUREAU OF EMERGENCY MEDICAL SERVICES



Altho the freq's have been published several times, I'll remind you that CFD ambulance dispatch is on:

460.600 mHz R NORTH (area covered by "MAIN" fire alarm)
460.625 mHz R SOUTH (area covered by "ENGLEWOOD" fire alarm)
154.220 mHz ADMIN (for contact with ambulances in service)

MICHAEL also advised me that CFD has organized three command vans, to serve the functions previously handled by 4-2-4. Command vans respond automatically to box alarms preceded by a still alarm within their respective districts, or as dispatched by the Fire Alarm Office. Details are as follows:

Van Radio Signature	Quarters	Response District
2-7-1	E - 26	from North Ave on the north to Pershing Rd on the south, citywide
2-7-2	E - 91	from North Ave on the south to the north city limits, citywide (including O'Hare)
2-7-3	E - 116	from Pershing Rd on the north to the south city limits, citywide

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North Shore Communities Police Departments From a nonmember come the details of the communications network shared by Lake Forest, Lake Bluff, Deerfield, Bannockburn, Highland Park, and Highwood, Illinois. This is a rather unconventional system, which I could never figure out by studying Police Call. The main frequency is

155.730 mHz, which can be used as a repeater accessed by two different input frequencies, depending upon where the mobile is located in relation to the repeater receivers, or can be used in the B/M simplex mode. Here's the frequency list and a key to unit identifiers:

LAKE FOREST POLICE NETWORK

Frequency	
1	155.730 (156.150)
2	155.730 (154.770)
3	155.730
4	155.565
5	155.850
6	155.475 [ISPERN]

Lake Forest	
Zones 1-7	Patrol units
Zones 8-9	Supervisors
Zones 10-11	Animal control & Parking enforcement
Zones 12-16	Investigators

Lake Bluff	
Cars 21-26	Patrol units

Deerfield	
Cars 40-46	Investigators
Cars 50-59	Patrol units

Bannockburn	
Car 60	Patrol unit

Highland Park	
Car 79	Animal control & Parking enforcement
Cars 83-89	Investigators
Cars 90-98	Patrol units
Car 96	Supervisor

Highwood	
Cars 100-110	Patrol units

--

Long Grove Fire Department Recent monitoring indicates that back-up dispatching for Long Grove FD will be provided by Wauconda FD, on 153.890 mHz using call letters KST 932. Primary dispatch for Long Grove FD is by Vernon Hills PD, from the station located near Hawthorne Center. Long Grove is Station 33 in MABAS Division 4 (Lake County), Quadrant 3, sharing 153.890 mHz with Wauconda [station 34] and Barrington [station 36]. Lake Zurich [station 32] is also located in Quadrant 3, but they operate on 155.835 mHz.

--

My forerunners left me with a tough act to follow, editing the PS-GL column; John Arendt set the tone for us as one of the most interesting columns in the Newsletter and Brandt and Scott followed his lead. I'll be counting on them, as well as the RCMA Chicago membership and all of you who look here for news and views each month to write (or phone, I'm in the book) regularly. One idea I think I'd like to initiate is including a question or two each month for you to answer. I know that several times in the past I wrote in to supply a missing detail or offer a correction even tho I wouldn't have sent in material "cold." So here are a couple for starters; no prizes except that you see your (first) name and membership number appear in the column along with some info you know someone else is interested in!

1. What do the codes used by Lake County (IL) Sheriff when clearing a call mean?
2. What police departments still use the Lake County repeater (156.210 mHz)?

It also seems to me that we frequently hear public service agencies call for emergency assistance from the utilities (Comm Ed, Gas Co, Bell Tel, etc). It would be nice to have access to their operating frequencies. At the risk of drawing Brandt's disapproval, I'd like to see some of that information appear here, too, so we can get the electric company lineman's size-up of the fire we're following on the fire frequency.

Well, it's been mostly "my hometown" this time, and it's likely to be for at least one more column. But at least its a start - the torch has been passed. The way to see more varied reporting here is for those of you in Michigan, Ohio, Kentucky, Indiana, Wisconsin, and southern Illinois to tune up the scanners and follow the new column motto:

TRACK 'EM DOWN WRITE 'EM UP SEND 'EM IN!!!

Best regards,

Jack

PUBLIC SAFETY — NORTH EAST:

Send Public Safety and Special Emergency frequencies, radio system details, and questions as follows — New England states, New York, Pennsylvania, New Jersey, Maryland, Delaware, and District of Columbia:

Richard Barnett, P.O. Box 428, Newton Highlands, MA 02161.

Greetings from the Northeast. I'd like to apologize for recently missing the column deadline, it's just that it has been a very busy time. As I write this article, I look foward to leaving on a tour of Europe within 24 hours. I'll be back in tome to complete next month's column and as my time frees up, I also look foward to improving the quality of the Northeast report. By the way, my new Radio Shack portable (which I am very happy with) will be accompanying me on the tour. Rickey Stein will hear from me.

A few notes on frequency changes in my home area of Boston: Framingham police has joined the Bapern system on 471.7625 as has Lynn on 472.4125. The new Metrofire system is somewhat active with Newton Fire on 483.4625, Brookline 483.4875, Watertown on 483.7125 and Winthrop on 483.6375. One of the best frequencies in the Boston metro area is the now repeaterized 154.220 "Metrofire" (Newton control) on 483.3125 with all major alarms being reported and responded to over this powerful UHF channel. Perhaps the most important frequency in my region is the amateur band frequency of 145.23. This is the "Red Cross Disaster Net" which heats up fiercely during any sort of emergency; from a two-alarm fire to a huge snowstorm. At times more active than any Boston police channel, this is an absolute must in eastern Mass. monitor channel plans.

The Massachusetts State Police has just completed their microwave assist project. Now "Station H" (SP Boston headquartern) can speak with any cruiser in the state by hitting microwave sites on hilltops such as Wachusett in central Mass. and then keying up the regional frequency such as 42.46 for the western portion of the state. An important step for the MSP which may be followed by the use of hi-band vehicle extenders such as those seen in nearby Connecticut. A final note on Mass. State Police for all you travellers, look for "Team 55" radar operations on 42.380 and 42.460 in eastern areas. 42.460 (primarily used as main ops. in western Ma.) is heavily being used as a local chit-chat and coordination channel as 42.540 had always been.

Connecticut State Police has acquired some new hi-band channels (159.150, the old Rhode Island channel if I'm not wrong, being one of them) and as of this writing I'm unsure of their potential usages. Any help would be appreciated.

A reader asked me recently if I could help in coming up with the ambulance service that operates on 499.6125 in New York City. Again, any ideas?

Two superb member reports now follow. Both took a tremendous amount of research and time and, notwithstanding that both authors are very good friends of mine, I'd like to thank both Ed Soomre (N.H.) and Rick Schneider (D.C.) for their great work. By the way, many of you may know that the book I am publishing on Maryland and D.C. with Rick Schneider was held up because of a major change in the D.C. police radio system which NO ONE could completely decipher. Even now, you'll notice question marks on the district channel fours. What we have discovered is that this channel is not only very low power, but also may be changed day to day with the new synthesized transceivers. Any more help on this would be of course appreciated. Anyway, now that we do have the system figured out as far as seemingly possible, the "D.C." book will soon be printed.

Now for Ed Soomre's excellent report on New Hampshire Natural Resources. As I do not know Ed's member number offhand, and as I know that he would love to hear from you, his address is: 1 Alcott Drive, Northboro, MA. 01532.

New Hampshire Fish and Game

The New Hampshire Fish and Game Department is responsible for fish and game enforcement, fish hatcheries, animal problems and rescue operations. They work closely with the State Police, especially since the State Police dispatches fish and game units nights and weekends. Primary communications is controlled by the fish and game dispatcher or the State Police dispatcher, with the call sign KHX 33.

The communications system is made up of a series of VHF high-band repeaters located at strategic locations for statewide coverage. Each repeater site is identified by a letter, which is used by the dispatcher and mobiles throughout their communications. Mobile units are usually identified by three-digit numbers, 200's being conservation and enforcement, and 300's being biologists and fishery operations.

Primary Repeater Output	151.340 MHZ
Primary Repeater Input	159.345 MHZ
Primary Repeater Talk Around	151.340 MHZ
Simplex car-to-car	159.465 MHZ (KJ 9368)

The secondary repeater system is set up at some locations, with some sites licensed. Use of this system is limited, but might be used in the future.

Secondary Repeater Output	151.325 MHZ
Secondary Repeater Input	159.315 MHZ
Secondary Repeater Talk Around	151.325 MHZ
Simplex car-to-car	159.465 MHZ (KJ 9368)

Primary Repeater Sites

A	Mt. Kearsarge	Warner	KGX 947
B	Mt. Washington	Sarg Purchase	KGX 947
C	Pitcher Mtn.	Stoddard	KGX 947
D	Dixville Notch	Clarksville	KGX 947
E			
F			
	Rockingham Jail	Brentwood	KQS 600
	Blue Job Mtn.	Farmington	KNEL 398
	Moose Mtn.	Hanover	KNER 723
	Holden Hill	W.Stewartstown	KRZ 911
	Hyland Hill	Westmoreland	KGX 947

Secondary Repeater Sites

Pitcher Mtn.	Stoddard	KNCK 700
Mt. Kearsarge	Warner	KNCK 700
Hyland Hill	Westmoreland	KRJ 696

New Hampshire Forest Service

The New Hampshire Forest Service deals with forest fire observation and control, forestry conservation and management. Its radio communications system is made up of VHF high-band repeaters, as well as VHF high-band and VHF low-band simplex frequencies.

The state is divided into two areas (which split around the Concord area), North and South, each served by their own radio system. Most forestry service radios are set up as follows.

CH1	Southern Forest Service	151.445 MHZ (repeater out)
CH1	Southern Forest Service	159.285 MHZ (repeater in)
CH2	Northern Forest Service	151.295 MHZ (repeater out)
CH2	Northern Forest Service	159.270 MHZ (repeater in)
CH3	Fish and Game	151.340 MHZ (repeater out)
CH3	Fish and Game	159.345 MHZ (repeater in)
CH4	Statewide, car-to-car, aircraft	159.225 MHZ (simplex) - KA 87291
-	Forestry Frequency, old system	31.900 MHZ (simplex, AM)

The 31.900 MHZ system operates in the AM mode (not FM as other systems do) which was the primary forestry service communications system years ago. It is still used for fire tower-

to-fire tower communications.

Repeater Sites

Designator	CH	Site Location	Call Sign	Town
1A	1	Mt. Kearsarge	KJW 570	Warner
1B	1	Pitcher Mtn.	KNER 233	Stoddard
1C	1	Blue Job Mtn.	WSU 345	Farmington
2A	2	Mt. Washington	KNDP 582	Sarg Purchase
2B	2	Holden Hill	KRJ 695	W. Stewartstown

Forest fire towers are identified by their location and are listed below.

New Hampshire Forest Fire Tower List

Fire Tower Location	Town	Notes	Fire Tower Location	Town	Notes
Agassiz Mtn.	Maplewood		Kearsarge Mtn. North		WMNF
Bear Hill	Suncook	closed	Magalloway Mtn.	Pittsburg	
Belknap Mtn.	Gilford		Milan Hill	Milan	
Black Mtn.		WMNF	Oak Hill	Loudon	
Blue Job Mtn.	Rochester		Pack Monadnock	Peterboro	
Cannon Mtn.	Franconia		Pawtuckaway Mtn.	Nottingham	
Cardigan Mtn.	Cannan		Pine Mtn.		WMNF
Cherry Mtn.		WMNF	Pitcher Mtn.	Stoddard	
Cranry Hill	Hillsboro		Prospect Mtn.	Lancaster	
Crotched Mtn.	Francestown	closed	Red Hill	Moultonboro	
Croydon Mtn.	Newport		Rock Rimmon	Kingston	
Deer Mtn.	Pittsburg	closed	Signal Mtn.	Millisfield	closed
Devils Den	Auburn		Smarts Mtn.	Lyme	closed
Federal Hill	Milford		Speckled Mtn.		WMNF
Green Mtn.	Effingham		Stinson Mtn.		WMNF
Hemenway Forest		WMNF	Sugarloaf Mtn.	Stratham	closed
Hyland Hill	Westmoreland		Uncanoonuc Mtn.	Goffstown	closed
Jeremy Hill	Pelham	closed	Warner Hill	Derry	
Kearsarge Mtn.	Warner				

closed indicates the fire tower is no longer used.

WMNF indicates the fire tower is in the White Mountain National Forest.

Mobile units are assigned a numbering system as follows.

New Hampshire Forest Service Mobile Units

car	title
1	Commissioner
2	Director, Forests and Lands
3	Director, Parks and Recreation
4	Chief Forest Fire Service
5	Training and Prevention Officer Forest Fire Service
6	Assistant Training and Prevention Officer Forest Fire Service
7	
10-19	District Chiefs, Forest Fire Service
20-29	
30-39	Forest Managers, Forest Fire Service
40-49	Miscellaneous Units
50-59	
60-69	
70-79	Parks Units
80-85	Off Highway Vehicles, Forest Fire Service

New Hampshire Parks and Recreation

The Parks and Recreation Department has their own radio communications system.

Repeater Output	151.385
Repeater Input	159.375
Simplex	31.780

Repeater locations are Cannon Mtn. in Franconia (KJW 211) and Mt. Sunapee in Newbury (KOB 520). Primary users are the NH Parks, especially the Cannon Mountain Tramway. Another repeater is located in the southeast seacoast area, with communications from the beach areas. Base at Hampton Beach is KIZ 651. The 31.780 MHZ is an old simplex system, used at Hampton Beach, that is being phased out.

WASHINGTON, D.C.: CITY AGENCIES
Metropolitan Police Department

460.350R	1A:	District 1 Dispatch	KLG604
460.400R	1B:	Southeast Tactical	KLG613
460.400M	1C:	Simplex car to car	
?	1D:	Confidential	
460.250R	2A:	District 2 Dispatch	KLG610
460.100R	2B:	Northwest Tactical	KLG605
460.100M	2C:	Simplex car to car	
?	2D:	Confidential	
460.025R	3A:	District 3 Dispatch	KLG617
460.100R	3B:	Northwest Tactical	KLG605
460.100M	3C:	Simplex car to car	
?	3D:	Confidential	
460.500R	4A:	District 4 Dispatch	KLG614
460.100R	4B:	Northwest Tactical	KLG605
460.100M	4C:	Simplex car to car	
?	4D:	Confidential	
460.200R	5A:	District 5 Dispatch	KLG616
460.100R	5B:	Northwest Tactical	KLG605
460.100M	5C:	Simplex car to car	
?	5D:	Confidential	
460.150R	6A:	District 6 Dispatch	KLG609
460.400R	6B:	Southeast Tactical	KLG613
460.400M	6C:	Simplex car to car	
?	6D:	Confidential	
460.475R	7A:	District 7 Dispatch	KLG603
460.400R	7B:	Southeast Tactical	KLG613
460.400M	7C:	Simplex car to car	
?	7D:	Confidential	
460.450R	8A:	District 8 Dispatch(FUTURE)	KLG607
460.400R	8B:	Southeast Tactical	KLG613
460.400M	8C:	Simplex car to car	
?	8D:	Confidential	
460.425R	9A:	District & HQ Officials	KLG606
460.425R	9B:	District & HQ Officials	KLG606
460.425R	9C:	District & HQ Officials	KLG606
460.425R	9D:	District & HQ Officials	KLG606
	10A-D	FUTURE USE	
460.275R	11A:	Special Operations Division	KLG611) Portables:
460.275R	11B:	Special Operations Division	KLG611) 154.890
460.275M	11C:	Simplex car to car	
465.000M	11D:	Special Events/Hostages	
460.325R	12A:	Citywide	KLG615) Crossband:
460.325R	12B:	Citywide	KLG615) 159.150R
460.325R	12C:	Citywide	KLG615) Portables:
460.325R	12D:	Citywide	KLG615) 155.250

NOTE: 11pm-7am simulcasting: 12A/1A 2A/3A 4A/5A 6A/7A
"Station Channel" refers to Tac Channel

158.790R	TAC-1:	Undercover Operations	KRJ859 (156.030-I)
158.850R	TAC-2:	Undercover Operations	KLG608 (156.090-I)
159.030P		Citywide Pager & Broadcasts	KBZ474
453.550R		D.C.Metro Area Police Mutual Aid	KLG612

UNIT IDENTIFICATION

Cruisers (D=District)
0xx HQ Senior Officers
11 Dep.Chief-Operations
2D District Commander

Cruisers (continued)

1xx HQ Senior Officers
2xx District Officials
00 D1 Official
01 D1 Official
02 D1 Official
03 D1 Official
04 D2 Official
05 D2 Official
06 D2 Official
07 D2 Official
08 D3 Official
09 D3 Official
10 D3 Official
11 D4 Official
12 D4 Official
13 D4 Official
14 D5 Official
15 D5 Official
16 D5 Official
17 D6/7 Official
18 D6/7 Official
19 D6/7 Official
2x D1 Sergents
3x D2 Sergents
4x D3 Sergents
5x D4 Sergents
6x D5 Sergents
7x D6 Sergents
8x
9x D7 Sergents
3xx HQ Detectives
0x Command
1x Homicide
2x Robbery
4x Burglary
5x Sex
6x Sector Cruisers
4xx Traffic Division
07 Hack Inspector
3x Alcohol Cruisers
5xx Miscellaneous Units
2D Dist. Youth Div. Cars
3x HQ Vice & Narcotics
4x HQ Vice & Narcotics
5x HQ Vice & Narcotics
6x HQ Vice & Narcotics
7x HQ Vice & Narcotics
9D Dist. K-9 Units
6xx SOD & Miscellaneous
0x Special Operations Div.
1x Special Operations Div.
2x Special Operations Div.
3x Special Operations Div.
5 ROPE (Repeat Offenders)
4x Special Operations Div.
5x SOD Executive Escort
6x Special Operations Div.
7x Special Operations Div.
9D District K-9 Units
7Dx District Detectives
8xx HQ Special Units
03 Boat
9Dx District Evidence Tech.

District Patrol Units

Scout 011-032 District 1
Wagon 033-034 District 1
Scout 040-055 District 6
Wagon 056-057 District 6
Wagon 061-062 District 2
Scout 063-084 District 2
Scout 085-104 District 3
Wagon 105-106 District 3
Wagon 116-117 District 4
Scout 119-137 District 4
Scout 138-157 District 5
Wagon 158-159 District 5
Scout 171-189 District 7
Wagon 190-191 District 7

Special Units

TAC-xx = Undercover units
JUNEAU = Helicopters
MOTOR-x= Cycles
RADIO xxx = SOD/Traffic/HQ/Foot/ Special Assignment
D000 = District Station
Dxxx = District Assignment
(Dist.#)("D")(Unit#) = Scooters

NOTE:Last Minute Announcement--As we go to print it was learned that the D.C. Fire Dept. has been given approval for use of 8 "800"MHz frequencies. There are no plans at present for a switchover of the Department's radios.

Metropolitan Police Department

The following are the only official Ten Codes, however sometimes the Metropolitan Police use others which correspond to those provided at the back of this book.

TEN CODES

10-01 Unable to copy
10-04 Acknowledgment(2)
10-08 In Service
10-30 WALES Hit
10-33 Officer in Trouble
10-89 Bomb Threat
10-99 Acknowledgment (1 man)

DISTRICT LOCATIONS

District 1:
HQ 4th&E Sts., S.W.
1D1 4th&E Sts., S.E.
District 2:
HQ 23rd&L Sts., N.W.
2D1 33rd&P Sts., N.W.
2D2 42nd&Albermarle,N.W.
District 3:
HQ 16th&U Sts., N.W.
3D1 6th&N.Y.Ave., N.W.
District 4:
HQ 9th&Quackenbos, N.W.
4D1 Morton&Sherman, N.W.

District 5:
HQ 7th&Girard Sts., N.E.
5D1 F&MD. Sts., N.E.
District 6:
HQ 42nd&Benning Rds., N.E.
District 7:
HQ 7th&Mississippi, S.E.
District 8:
FUTURE-Capitol Hill Area

CITYWIDE OPERATIONS
Headquarters:
Indiana Ave.& C St., N.W.
Special Operations Div.
HQ N.Capital & K Sts.
TAC GA. & Madison, N.W.
CHOPPER Bolling A.F.B.
Youth Division
N.Capital & K Sts.
Harbor Division
Maine & M. Sts., S.E.
Training School
RTE 295 & Chesapeake,S.E.
Impound Lot
RTE 295 & D.C. Line

PUBLIC SAFETY — NORTH CENTRAL:

Send Public Safety and Special Emergency frequencies, radio system details and questions as follows - Iowa, Kansas, Missouri, Nebraska, N. Dakota, South Dakota, and Minnesota:

Rudy Brockmueller, RR 2, Box 50, Freeman, SD 57029 (p. 66)

Welcome to the PS North Central Column. I am Rudy Brockmueller, the new editor. As a farmer here on the Great Plains, I find that my monitoring varies from intense, active searching to an occasional bit of listening during busy seasons.

Our area has just gone through some severe flooding and stormy weather. This has made certain state agency frequencies and all civil defense frequencies very active. Many frequencies not normally very active became so during this time. With the many varied weather conditions our area experiences, it would be good to confirm and log the frequencies used. Again, as in previous years it would be great to send in the state highway, civil defense, and weather related frequencies for your area.

Because of lack of input to the column in the past, we may include a survey similar to the one used by the PS South East editor in the April 1984 newsletter. I recently got a complete set of back issues of RCMA. After looking through them, I realized that we have members in nearly every part of the North Central region. We need to hear from more of you, no matter how small your frequency list or how remote your area. I have noticed a lack of information from the following areas: North Dakota, Western and Northern South Dakota, Northern Minnesota, and much of Nebraska. We must not exclude the other areas, as frequency changes occur and omissions and mistakes are possible. Also newer members do not have access to previous material, so a certain amount of repetition may be good.

Here are some frequencies I've logged and have not been listed.

155.865 .....University of South Dakota security, Vermillion
453.000/458.000 are used by Parker State Radio to control Sioux Falls Channel 4 (39.24 base and 39.16 mobile).
Parker State Radio has the ability to transmit on local civil defense frequencies during an emergency.
Sioux Falls Weather also can transmit on Minnehaha Civil Defense (158.745) and Southeast South Dakota Civil Defense (158.805) during severe weather.

Any suggestions or criticism for the column will be greatly appreciated. Send them to the address listed at the column head. Include a stamp (20¢) if you want a reply. Let's keep the North Central Column active.

Take Care,

Public Safety-California

Public Safety-California P.O. Box 3962 Santa Fe Springs, California 90670-1962

WELCOME TO R.C.M.A. PUBLIC SAFETY CALIFORNIA ISSUE - SEPTEMBER, 1984

By the time you are reading this, the 1984 Summer Olympic Games should have ended. Did you survive? Send in your frequency lists of catches you made during the Olympics, and we'll share them with all members.

Don't forget that we have a super fantastic guest speaker coming in September! The author/editor of POLICE CALL, the Official Scanner Bible, Mr. Gene HUGHES will be our guest to kick off the begining of the 10th year of RCMA! Sept 28, 1984

Tour of Los Angeles Police Department Communications Center (ECCCS) is scheduled for Friday August 24, 1984 at 2000 hrs. City Hall East, 4th floor basement. BE THERE.

Tour of Orange County Fire Department Dispatch Center (Station 91) is scheduled for Friday November 16, 1984 at 2000 hrs. NOTE: This is the 3rd Friday of the month.

How did you like the August issue? How about the blue centerfold? (Patriotic!) Alot of work went into the August issue. I'd like to thank HUGH (our Photo Editor) for much of the info. JOHN (CA-OR-078) our past president from 1980-81 and I put in a great deal of work on the centerfold. If enough interest was aroused, we might do something similar for the Pasadena Rose Parade/Rose Bowl in January 1985. Send in your comments, that is our only feedback. Thanks. ERIC (CA-LA-045)

And now on to our column for September..... (Clearing out some old mail!!)

From Mike (CA-OR-204):

Well, even after you think you've done your research, sometimes the facts still aren't straight!

CORRECTION TO REDLANDS, CA. P.D. frequencies (December '83 newsletter, P.S. Calif., p.76).

154.800 (R)	KMF 833	Ch.4	(primary)
*155.805	KQW433	Ch.2	(secondary)
154.92	KRO422	Ch.3	(CLEMARS and countywide mutual)
155.535 m	KMF833	Ch.1	(repeater input to Ch. 4)
155.43	WCU984	unknown use	

* 155.805 is not animal regulation, as I previously reported.

Unit Designators: (Prefix, followed by unit number)

"King"--Kanine units "Paul"--Patrol "David"-Detectives
"Linclon"--Lieutenant "Union"--Univ. of Redlands

+-University of Redlands Public Safety units, and Redlands Community Hospital Security can operate on R.P.D. primary.
++ The Sbn Bernardino Sheriff's Helicopters, 40-King-1 and 40-King-2, provide regular air patrol for Redlands and can operate on all R.P.D. frequencies.

Eric CA-LA-045 all of these freqs. mentioned have been confirmed. I'll keep searching for more un-published freqs.

From Chuck (CA-SD-008):

San Diego Fire Dept Freq. 8 mobile input is 153.875(old SDSO Freq.) San Diego PD Inquiry channel is 154.055 Base/ 154.785 mobile. I have heard

the East County Detention Facility (The Jail) on 153.995.
Heartland Fire Zone 4 uses "East Tac" 154.250 when on scene of a fire.
El Cajon PD Freq. 5 is 155.310 as a tactical channel.
San Diego PD Swat team uses 154.935. La Mesa PD input to their repeater on freq. 1 is 156.510. Grossmont Center Sercurity units are " Sercurity 1-6" on 151.835 and can talk to La Mesa PD on Blue 153.995.
Does anyone know the freqs. the DEA,FBI and ATF uses for its wireless mics? They have been using them alot lately and I haven't found them,yet!
San Diego Fire Dept. Hazardous Material Truck (Haz-Mat) is located at Station 10- 62nd and Acorn.

To Art(CA-KE-014)
A, B,C Squad refers to the time schedule that the officer is working.
A squad is 14:30-22:30 B Squad is 22:30-06:30 C Squad is06:30-14:30
I don't know what a Police agent or the George unit is, but I have heard them too.

From JOE (CA-SH-004):

Redding Area Radio Frequencies

FREQUENCY	COMMUNICATIONS SERVICE	REMARKS
152.690	BURNEY EMERGENCY CHANNEL	
152.810	REDDING EMERGENCY CHANNEL	
162.000	REDDING SHIP-TO-SHORE	
152.090	REDDING COMMON CARRIER	152.085 CLEARER ON SX-200
152.180	REDDING COMMON CARRIER	
152.570	REDDING MOBILE TELEPHONE	
152.510	FALL RIVER MILLS MOBILE TELEPHONE	
152.540	SHINGLETOWN MOBILE TELEPHONE	
157.770	FALL RIVER MILLS MOBILE	152.510 (SECOND CHANNEL)
157.830	REDDING MOBILE TELEPHONE	152.570 (SECOND CHANNEL)
157.800	SHINGLETOWN MOBILE TELEPHONE	152.540 (SECOND CHANNEL)
157.950	BURNEY MOBILE TELEPHONE	152.690 (SECOND CHANNEL)
461.200	SHASTA HIGH SCHOOL DISTRICT	REDDING
461.350	" " " "	
466.200	" " " "	BURNEY (BURNEY HIGH?)
146.755	HAM REPEATER	HATCHET MT. (?)
169.200	USFS SHASTA FOREST	AIR
166.675	USFS LASSEN FOREST	AIR
164.9375	USFS FIRE	36.75 MOBILE FREQ.
166.5875	USFS FIRE	38.75 MOBILE FREQ.
151.190	CDF LASSEN AREA	REPEATER
159.390	CDF LASSEN AREA	INPUT FREQUENCY
152.690	CITIZENS UTILITIES	BURNEY
158.340	" "	"
151.985	" "	HATCHET MT.
460.925	SHASTA COUNTY SCHOOLS	REDDING
465.925	" " "	"

FREQUENCY	COMMUNICATIONS SERVICE	REMARKS
462.975 R	Northern California Emergency	Redding only (Paramedic coordination)
129.30	UNITED AIRLINES	
129.50	" "	
122.900	CIVIL AIR PATROL (CA)	REDDING
123.100	" " " "	"
129.300	AERONAUTICAL RADIO I	REDDING
129.600	" "	"
129.850	" "	"
130.700	" "	"
131.100	" "	"
153.155	SHASTA LOGGERS RADIO	TRANS. FROM REDDING
158.295	" " "	" " "
457.200	" " "	" " "
153.050	EMMET BAUGH CO., INC.	(LOGGER) REDDING
153.295	" " " "	" "
151.715	REDDING SECURITY PATROL	
151.835	AMERICAN AMBULANCE	REDDING
"	SHASTA PATROL SERVICE	"
151.895	REDDING SAFE & ALARM	"
154.515	MERCY HOSPITAL	"
158.295	PACIFIC TELEPHONE	REDDING
161.670	NOR. CAL. BROADCASTING	REDDING
161.700	" " "	"
"	RADIO REDDING, INC.	"
161.720	" " "	"
161.730	" " "	"
161.760	" " "	"
162.000	RADIO ELECTRONICS	"
459.275	" "	"
48.820	PACIFIC GAS & ELECTRIC CO.	BURNEY
158.250	" " " " "	"
457.900	" " " " "	"
74.060	" " " " "	REDDING
75.940	" " " " "	"
121.500	NATIONWIDE EMERGENCY AIRCRAFT	
122.915	NATIONWIDE HIGH ALTITUDE UNICOM	
122.900	NATIONWIDE SEARCH AND RESCUE MULTICOM	
123.025	NATIONWIDE HELICOPTERS UNICOM	

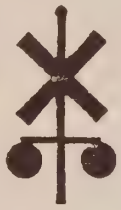
FREQUENCY	COMMUNICATIONS SERVICE	REMARKS
123.100	SEARCH AND RESCUE	
463.325	WEST AIR	BALLY MT. (REDDING)
468.325	" "	" " "
131.750	REPUBLIC AIRLINES	
119.800	REDDING MUNCIPAL AIRPORT	
153.500	BURNEY WATER DISTRICT	
153.875	SHASTA COUNTY GOVERNMENT	BURNEY AND REDDING
153.755	" " "	" " "
153.980	" " "	" " "
158.730	" " "	" " "
158.760	" " "	" " "
159.170	CDF (PARKS AND FORESTS)	BURNEY AND REDDING
159.360	" " " "	" " "
159.330	" " " "	NORTH FORK MT. (REDDING)
33.660	" " " "	REDDING
33.980	" " " "	"
151.280	" " " "	"
151.355	" " " "	"
151.430	" " " "	"
159.270	" " " "	"
159.300	STATE OF CALIFORNIA GOVT.	REDDING
159.420	" " " "	"
159.435	" " " "	"
460.025	STATE OF CALIFORNIA POLICE	REDDING

REF : MAY, 84 ISSUE, ERIC (CALA -45) NEEDLES CHP

YES, THE NEEDLES CHP IS NOW A FULL AREA OFFICE (OPERATING FROM NEEDLES POLICE DEPT. OFFICE. HOWEVER, THERE ARE THREE RESIDENT OFFICERS, FOR THE VIDAL JCT, PARKER DAM AREA THAT WERE TRANSFERRED FROM THE BLYTHE OFFICE TO THE NEW NEEDLES OFFICE. THERE ARE DISPATCHED BY INDIO STILL, AS THEY HAVENT CHANGED OUT THE RADIOS, NOR CAN THEY HIT MANY OF THE "WHITE" REPEATERS. THESE THREE OFFICERS LIVE IN THE PARKER DAM, CA AND PARKER, AZ. AREA, AND COVER MANY MILES OF SR 62 & 95. THERE RADIO NUMBERS ARE 11422, 11423, 11424, AND ARE THE ONLY "114" UNITS YOU'LL HEAR TALKING TO ANB FROM INDIO. THE RADIO NUMBERS ARE ASSIGNED TO INDIVIDUAL OFFICERS, NOT BEATS. THEY HAVE TWO CARS, AND THEY BOTH HAVE IN ADDITION TO CHP RADIOS, A AZ. LOW BAND, 39.18 RADIO SO THAT THEY HAVE LOCAL CONTACT WITH THEPARKER AZ. POLICE DEPT. MOST OF THE ACCIDENT, ETC REPORTS GO TO PARKER, AS ITS THE ONLY TOWN IN THE AREA.ON THE LOW BAND THEIR CALLS ARE ; 360,361, 362. PARKER P.D. IS KNOWN AS "355". ALSO, THE SAN BERNARDINO COUNTY SHERIFFS FIVE RESIDENT DEPUTYS OPERATE ON 155.91, WHILE THE NEEDLES AND HAVASU LAKE DEPUTYS OPERATE ON 155.97. THE DEPT. HAD TO PUT A NEW REPEATER IN SERVICE TO HAVE GOOD RADIO CONTACT WITH THE PARKER DAM RESIDENT OFFICERS. THAT REPEATER IS ON BLACK PEAK, 5 MILES NORTH EAST OF PARKER AZ. (155.91).

THEY ALSO HAVE LA PAZ (OLD YUMA COUNTY AREA) COUNTYAZ. RADIOS IN THEIR RIGS. LA PAZ COUNTY HAS ITS OWN FREQ. NOW (ABOUT TWO MONTHS OLD)155.49, AND NO LONGER OPERATES ON THE YUMA COUNTY FREQ. OF 158.73. (LA PAZ COUNTY WAS CREATED IN 1/83). THE LA PAZ COUNTY SEAT IS PARKER, AZ. THEIR NEW REPEATER SITE IS ALSO BLACK PEAK. BUCKSKIN FIRE DISTRICT (PARKER AZ) IS NOW DISPATCHING FOR PARKER FIRE, AND PARKER AMBULANCE COMPANY, ALL ON 154.400. THE AMBULANCE SERVICE USES 154.400 FOR PAGER DISPATCH ONLY, AND ALL HOSPITAL TO AMBULANCE WORK IS DONE ON EITHER 155. 34 OR 463.00 (AZ. EMERGENCY MEDICAL FREQ.)BUCKSKIN ALSO DISPATCHES FOR THE SAN BERNARDINO COUNTY FIRE/CDF FOR THE RIVER AREA BATTALION ON 151.325. SAN BERNARDINOS AND BUCKSKINS REPEATERS ARE BOTH ON BLACK PEAK.

GEORGE (CA-SB- 08)



Railroads

Gary L. Sturm and
Bill Farmer, Editors

Send information about railroad frequencies and their uses, railroad radio system details, and related questions to:

Bill Farmer, P.O. Box 1838, Thousand Oaks, CA 91360

This month we will continue our coverage of railroad PBX (mobile telephone) systems. Last month we listed the Southern Pacific PBX station locations and we have one correction to make: the "Midlothian" station on the San Antonio Division uses 160.800/161.490 instead of 160.950/161.160. Bill (CA-VE-010) discovered this on a recent trip to Dallas when he heard the operator answering "SP Houston" on this frequency in the Dallas area. Cotton Belt operators answer "Cotton Belt PBX".

Next we have a list of PBX stations on Santa Fe Railway. The information came from a copy of the Santa Fe company telephone directory, and the channel designations F1 through F7 refer to the channel selector switches of the radios in their business cars. Since the business cars travel systemwide, they are equipped with all the PBX channels. In some local areas, you may hear the channels referred to by different numbers. That is because the mobile units often have only four-channel radios so the PBX channels for that particular area are placed in the channel 3 and 4 positions. Conversations on PBX channels are sometimes routine and uninteresting, but at other times they can be quite exciting, especially in the event of an unusual occurrence such as a special train operation or a derailment.

We would like to publish PBX station listings for other railroads. Burlington Northern, for one, has an extensive PBX system and is expanding it. Ken (IL-253) reports that BN is using 160.425 for their PBX output in the Chicago area. This is not one of their standard PBX channels and he does not know what the input frequency is. Can anyone tell us? If any member could send us a list of PBX locations and frequencies for any railroad, we'd be happy to print it. Company phone books are often good places to look for such a list.

SANTA FE PBX

Frequencies:

F1	160.650	Road Channel Systemwide
F2	161.010	Maintenance of Way Channel Systemwide
F3	160.260/161.490	PBX
F4	160.335/161.460	PBX
F5	160.560/161.490	PBX
F6	160.245/161.535	PBX
F7	160.425/161.295	PBX
F8	160.335/161.295	PBX

Railroads continued

State	Transmitter Location	Freq.	Approx. Coverage Area
Illinois	Chicago	F5	Chicago
Illinois	Lemont	F5	Lemont
Illinois	Ransom	F8	Steator
Illinois	Edelstein	F3	Chillicothe
Illinois	Galesburg	F7	Galesburg
Iowa & Mo.	Dallas City IL	F3	Ft. Madison
Mo. & Kansas	Argentine	F4	Kansas City
Kansas	Topeka	F6	Topeka
Kansas	Emporia	F4	Emporia
Kansas	Elmdale	F7	Emporia-Newton-Abilene
Kansas	Walton	F3	Newton
Kansas	Wichita	F4	Wichita
Kansas	Arkansas City	F3	Wellington-Mulvane-Ponca
Kansas	Wellington	F7	Harper-Wichita-Ark. City
Kansas	Kiowa	F4	Harper-Waynoka
Oklahoma	Tangier	F6	Waynoka-Higgins
Oklahoma	Owasso	F4	Tulsa-Owasso
Oklahoma	Perry	F7	Ponca City-Guthrie
Oklahoma	Flynn Yard (Moore)	F6	Guthrie-Purcell
Oklahoma	Davis	F3	Purcell-Dougherty
Texas	Gainesville	F4	Dougherty-Haslet
Texas	Cedar Hill	F7	Haslet-Morgan-Dallas
Texas	Manhattan	F6	Morgan-Moody
Texas	Temple	F7	Moody-Milano
Texas	Lyons	F3	Milano-Navasota
Texas	Houston	F7	Rosenberg-Galveston
Texas	Miami	F7	Higgins-Panhandle
Texas	Amarillo	F3	Panhandle-Umbarger
Texas	Summerfield	F4	Umbarger-Hereford-Friona
Colorado	Cheraw	F4	La Junta
Colorado	Cheyenne Mountain	F6	Pueblo-Denver
Colorado	Sedalia	F4	Palmer Lake-Denver
New Mexico	Clovis	F6	Friona-Clovis-Melrose
New Mexico	Yeso	F3	Melrose-Vaughn
New Mexico	Capillo Peak	F4	Vaughn-Grants
New Mexico	Mt. Taylor	F3	Albuquerque-Cont. Divide
New Mexico	Gallup Hill	F4	Cont. Divide-Lupton
Arizona	Sanders	F3	Lupton-Holbrook
Arizona	Mt. Eldon	F4	Holbrook-Williams
Arizona	Bill Williams Mtn.	F3	Seligman-Flgstf-Prescott
Arizona	Yarnell Mtn.	F4	Congress-Sun City-Salome
Arizona	Glendale	F3	Phoenix & Glendale
Arizona	Hualapai Mtn.	F4	Peach Springs-Needles
California	Goffs Mtn.	F3	Needles-Goffs-Cadiz
California	Ludlow	F4	Ludlow
California	Flash II	F3	Barstow-Mojave
California	Crestline	F4	San Bernardino
California	Sierra Peak	F3	Los Angeles
California	Bena Mtn.	F4	Bakersfield
California	Fresno	F7	Fresno
California	Richmond	F6	Richmond

MORE ON WISCONSIN SHORTLINES

John Marx (WI-019) sent us frequencies for two more shortlines in Wisconsin which were not available for our article in the June issue.

MARINETTE, TOMAHAWK & WESTERN:

160.290	1 Base & 13 Mobiles
160.740	1 Base & 4 Mobiles

NICOLET BADGER NORTHERN:

161.155	1 Base & 7 Mobiles
160.215	1 Base only

John says these are recent applications for licenses and not all may be on the air. They may have others licensed earlier. Thanks, John, for sending this info. Non-member Jim Erdman reports that the Central Wisconsin Railroad does not use radios.

FLORIDA—TAMPA SBD & MIAMI METRORAIL

Joe Lewis (MD-015) reports on active channels for Seaboard System Railroad (SBD; formerly Seaboard Coast Line-SCL) in the Tampa area.

160.590	Road
161.100	Crew
161.460	Car Department
160.290	Yard

SCL 382 is the Tarpon Springs to St. Pete freight. "TS" means "Track Supervisor".

Dade County Transit (Miami) opened the first 11 miles of its new Metrorail transit system on May 20. Joe reports the following frequencies are licensed under callsign KNCD-875: 452.325, 452.375, 452.425, 452.475, 452.825. He does not have any information on what each channel is being used for. Here's a project for you Miami area members!

Joe also sent a tabulation of Amtrak ridership for a one-month period earlier this year. Overall patronage increased 9.5% over the same month in 1983. We won't print the entire listing since it doesn't pertain directly to monitoring, but interested members may obtain a copy by sending a SASE.

PITTSBURGH, PA

Bill Mauldin (FL-137), our Public Safety Southeast editor, is a captain for an airline and has reported the following railroad frequencies in use in the Pittsburgh area from 37,000 feet. If you can help identify any of the unknown channels please let us know.

160.230	Chessie System Road
160.260	Union RR Road
160.440	Norfolk Southern Yard (ex-Wabash Road)
160.485	
160.530	
160.800	Conrail Road
160.830	Bessemer & Lake Erie Road
160.890	Pittsburgh & Lake Erie Road
161.160	
161.190	Norfolk Southern Road (ex-N&W lines)
161.250	Norfolk Southern Road (ex-NKP lines)
161.445	

Bill also sent an article from the Law Enforcement Journal of Tennessee which describes an interesting law passed by that state in 1980. It provides that railroad locomotive engineers are not required to show their driver's licenses to state or local police officials at the scene of railroad crossing accidents. Instead, they are required to display their Locomotive Engineer Operator's Permit. Such permits are issued by the railroad companies to their employees and must be carried by operators at all times while performing duties.

CLINCHFIELD RAILROAD

In our July issue we reported that the Seaboard System Railroad was still using the old Clinchfield road channel (160.860) on the former Clinchfield lines (now part of Seaboard). Now we have a report from Bob (TN-???) that the change has been made to 161.100 (SBD channel 4). Bob says 161.550 is still in use as the yard channel at Erwin TN. If anyone else knows of any radio changes on Seaboard System please report them to us.

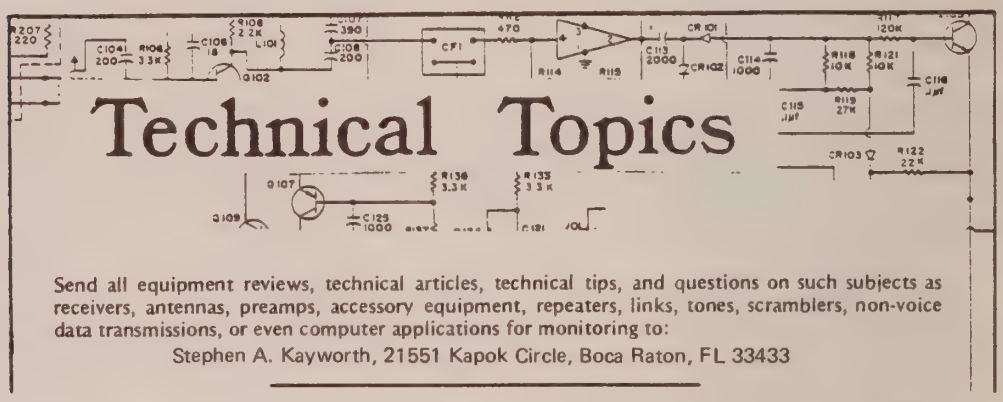
CHICAGO RAILROAD POLICE

Michael Yanul (IL-014) sent us an article from the Chicago Tribune of March 16 describing the activities of the 383 railroad police officers who work in the Windy City. It credits Tom Fogarty, director of police and special services for Illinois Central Gulf Railroad, with making the ICG police frequency in Chicago (161.205) into the designated railroad police channel for all forces in the city. The ICG police office at 2 Illinois Center in Chicago is the only one with a Law Enforcement Agency Data System (LEADS) computer terminal, so it

acts as the control center where agents from all railroads can call to check license numbers, etc.

Thanks to all who contributed this month—we had a pretty good showing. Let's keep it going in the months ahead.

—Gary & Bill



Technical Topics

Send all equipment reviews, technical articles, technical tips, and questions on such subjects as receivers, antennas, preamps, accessory equipment, repeaters, links, tones, scramblers, non-voice data transmissions, or even computer applications for monitoring to:

Stephen A. Kayworth, 21551 Kapok Circle, Boca Raton, FL 33433

REGENCY'S MX-5000

Recently I have received some mail concerning the relatively new MX-5000 by Regency. One letter I received was from René Borde (CA-SC-018). He provided some information which I now pass on to you.

The first thing that René states is that the MX-5000 has sensitivity and selectivity That is:

> Better than a modified BC-220, BC-250, or SX-200 within comparable AM/FM ranges.

This is encouraging since all the extra bells and whistles in the world can't make up for poor sensitivity or selectivity. After this opening remark René list a number areas which he feel are shortcomings in the scanner. The following is a recap of René's list:

1. No hold on search: The problem here, as I understand it, is that when you are in the search mode and you come upon something that you want to enter in one of the 20 channels, you can do so, but when you resume scanning, the scanner will re-start at the lower limit, not where it left off.

   René adds a fourth step to the three-step proceedure on page 17 of the owner's manual which causes the search to resume where it left off. Using the example in the owner's manual of entering a frequency found in search mode into channel 5, follow these steps:

   When the unit stop on an active channel, Press:

   1. ENTER
   2. 0/SPEED key
   3. 5/12.5 key
   4. ENTER (this is the added step)

   Now press SEARCH to resume search where it left off. René adds that these steps must all be accomplished "while the search is still stopped on the frequency to be entered." This can be quite a task if you're not fast enough, so as an aid to those of us who aren't as quick as we used to be, René has this suggestion:

   Unsquelch the desired frequency, thereby locking it in, and proceed to steps 1 thru 4 (above). Reset the squelch and press SEARCH. Search will resume where it left off.

2. Scanning Speed: One annonymous writer described the two scanning speeds as "slow and slower." René described the task of searching the entire 25 to 550 MHz range (looking for birdies) as "a long and tedious task because of the 5000's S-L-O-W/F-A-S-T speed."

3. Delay Option Delays All 20 Channels: René writes that the "delay option delays all 20 programmed channels, not like (some)...other scanners where each channel has a selective delay option."

4. LCD With Side Lighting Cannot be read while mobile: From my experience, scanning and driving don't mix. More than once I have found myself heading for the shoulder of the road after looking up from the mobile installation, but if you must "scan and drive," a good display is a great help.

5. No Provision For Actuating a Tape Recorder: This is a drawback if you enjoy recording off the air. You can always put a microphone next to the scanner's speaker, but this method allows for pick-up of room noise. Another method would be to build a simple VOX circuit to run a relay. The relay contacts could then turn the recorder on and off. This method will work with any scanner that doesn't provide for actuating a recorder.

6. Pick-up of Synthesizer Noise: According to René and reported also in Monitoring Times, the MX-5000 will hear "synthesizer noise with (an) indoor whip antenna only" but not on an outside antenna. This is a problem since the noise will tend to desensitize the receiver and increase the occurrence of intermod products. Synthesizer noise tends to be what is called "pink noise" because it doesn't fall on one particular frequency but on many different frequencies. All of this stray RF entering the receiver can combine with other signals from outside the receiver and result in strange intermod products.

   René tried to eliminate the problem by "enclosing the plastic cabinet with copper sheeting ...(but this)...does not solve the problem." Regency has been alerted to this problem so it should soon be under control.

7. No Mute or Volume Control for Internal "BEEP": The "Beep" occurs whenever the scanner is turned on or each time a key is touched (except for the UP and DOWN keys). René, as well as others, found the "Beep" to be annoying over a period of time and expressed the desire to be able to turn this feature on and off or, at least, be able to lower the volume. The thought behind this feature is good. It allows you to have a positive indication that you have actually hit a key. I do agree, though, that there should be a provision for disabling or adjusting the "Beep."

   René has provided a circuit that he uses to turn the "Beep" off when he is making a lot of keybord entries. Also, the circuit will not void the scanner's warranty since it is attached to the speaker jack. Refer to Figure 1 while reading René's description of how the circuit works.

   René's Description: I use an external 8 ohm resistor as a dummy load and an 8 ohm external speaker which are plugged into the 5000's external speaker jack thru a SPDT switch. An external speaker case may be modified to accept this, or as in my case, the resistor and switch were placed in a separate enclosure into which any 8 ohm speaker may be plugged....This external modification is only an interim measure to protect the warranty.

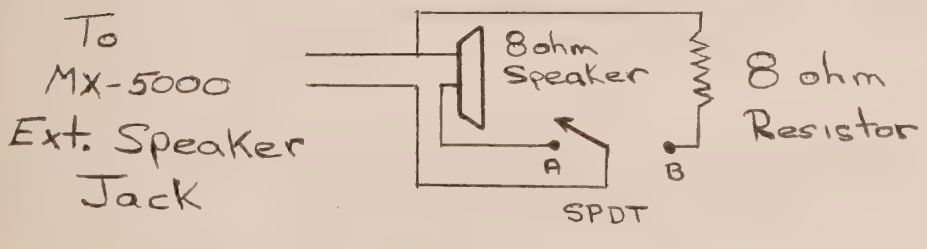


Figure 1

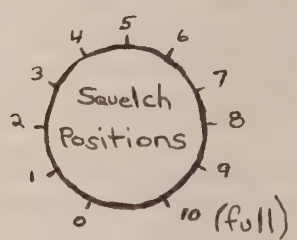
Note: For the 8 ohm resistor, use two 15 ohm resistors wired in parallel. Radio Shack part number 271-003 will work fine. Two of these wired in parallel will give you a value of 7.5 ohms which is, as they say, close enough for government work. When the switch is in position A, the external speaker works normally. When the switch is moved to position B, all audio is muted thereby eliminating the annoying "Beep." Once you are done making your keyboard enteries, you must move the switch back to position A to be able to hear anything.

Another letter from René contained the description of a modification which can be made inside the MX-5000 to reduce the level of the "Beep." This modification will definitely void your warranty, but I pass it along to you for your information. As I have warned many times in the past, please do not attempt such modifications unless you are confident that you know what you are doing! This modification is described in figure 2 and was given to René by a California RCMA member.

The last bit of information which René provided is a list of the "Birdies" he found by scanning from 25 to 550 MHz with no antenna attached to the MX-5000. Some of the signals he found were externally generated and were picked-up by the MX-5000 because the signals were so strong (TV stations).

Regency MX-5000
Internally Generated Signals (Birdies) and Externally Generated Signals with No Antenna - NFM and AM Modes
Search Mode - 5 kHz Increments

Full Squelch Position	Frequency MHz	TV Chan	Intermed. Squelch Position	Frequency MHz	TV Chan
10	46.995-47.005		4	94.980-94.985	
10	93.995-94.000		6	117.495-117.500	
10	99.890-99.925		6	126.645	
10	140.990-141.000		4	187.260-187.265	9
10	144.930		5	199.260-199.265	11
10	159.940-159.945		5	204.970-204.975	
10	164.490-164.500		6	305.480-305.490	
10	187.990-188.000		5	375.985	
10	211.490-211.495		5	450.000	
10	219.980-219.985		4	493.480	
10	234.985-235.000				
10	258.485-258.495				
10	281.985-281.995				
10	328.985-328.990				
10	329.970-329.975				
10	352.480-352.490				
10	379.920-379.925				
10	379.935				
10	469.975-469.990				
10	471.260-471.270	14			
10	507.240-507.250	20			
10	543.240-543.250	26			



This list of birdies should be helpful to you as you search the various band. You might perform this same test and see if you come up with similar results.

REDUCING THE BEEP IN REGENCY MX5000 RECEIVERS

Remove housing top and bottom, disconnect speaker connector.
Disconnect J1-J5, remove 4 screws holding receiver board (top side), lift out receiver.
Replace R137 1000 Ohms 1/8 watt with 10k Ohms 1/8 watt
Values over 27k Ohms result in almost no audio

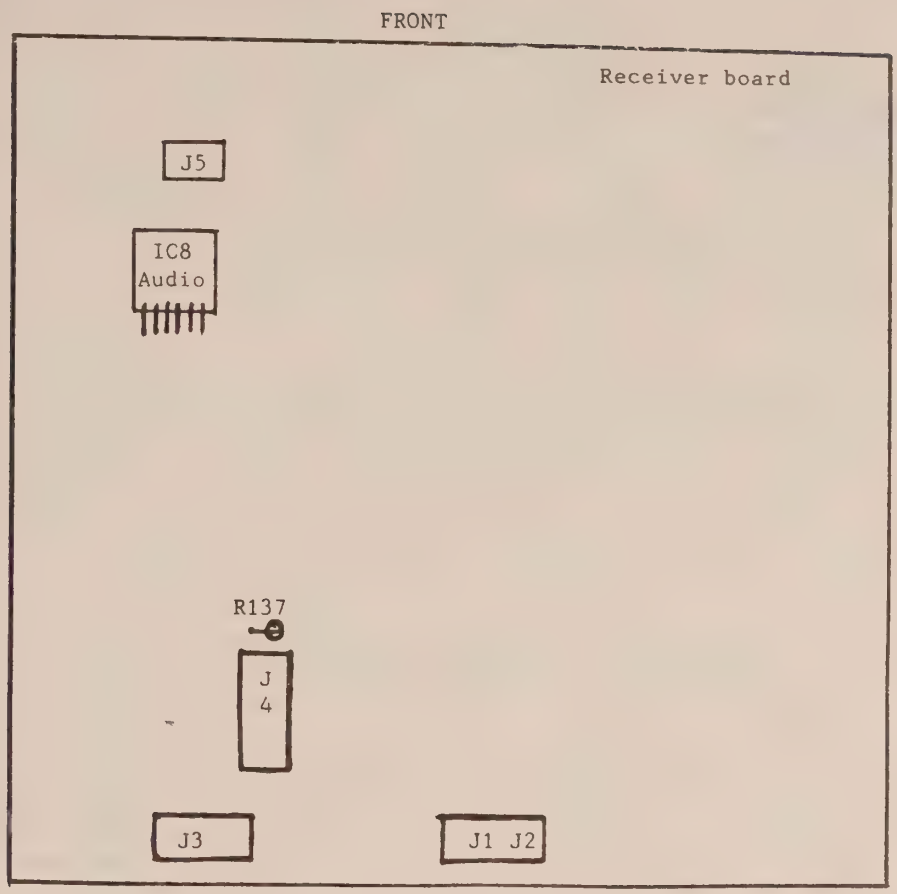


Figure 2

Is it thumbs up or thumbs down on the MX-5000? René says that he "still likes the 5000 in spite of its shorcomings!" In another letter, he describes the use of his MX-5000 with the Hamtronics CVR-806B converter. In that letter he states, "I would not hesitate to recommend the MX-5000 (and) CVR-806B...to anyone with 800 MHz transmitters in their area."

The information contained herein is of a general nature and cannot be used as the ultimate measure of the MX-5000, but I hope it will be of use to any of you currently considering the purchase of a scanner.

My thanks go to René Borde (CA-SC-018) for the effort he put into gathering this information.

****

The following is a report on my week long vacation which I mentioned to you last month:

I caught lots of fish and they fried-up real nice!!!

Till next month,

Steve, FL-183

VHF Marine

Send information, articles, frequencies and their use, and questions that relate to private, commercial, and Coast Guard VHF maritime and inland waterways radio communications to:

Emmett L. Baxter, Jr., 4122 Granby St., Norfolk, VA 23504

Hello and welcome to your September VHF MARINE COLUMN.

This month our first report comes from David (MD-069).He states that he has heard lots of activity on 122.750 Mhz..The chatter heard seems to be between planes that are used for fish spotting in the Delaware & New Jersey area.****If anyone knows the frequencies used between the spotter planes and the boats,please pass it on.Alan also would like information on commercial fishing boats in the Maryland, Delaware and New Jersey areas.

Also Alan sent in an International VHF Marine Radio Frequency List.It follows with footnotes.

INTERNATIONAL VHF MARINE RADIO FREQUENCIES

Channel	Ship Stations	Coast Stations
60	156.025	160.625
01	156.050	160.650
61	156.075	160.675
02	156.100	160.700
62	156.125	160.275
03	156.150	160.750
63	156.175	160.775
04	156.200	160.800
64	156.225	160.825
05	156.250	160.850
65	156.275	160.875
06	156.300	-
66	156.325	160.925
07	156.350	160.950
67	156.375	160.975
08	156.400	-
68	156.425	156.425
09	156.450	156.450
69	156.475	156.475
10	156.500	156.500
70	156.525	-
11	156.550	156.550
71	156.575	156.575
12	156.600	156.600
72	156.625	-
13	156.650	156.650
73	156.675	156.675
14	156.700	156.700
74	156.725	156.725
15	156.750	156.750
75	GUARDBAND	
16	156.800	156.800
76	GUARDBAND	
17	156.850	156.850
77	156.875	-
18	156.900	161.500
78	156.925	161.525
19	156.950	161.550
79	156.975	161.575
20	157.000	161.600
80	157.025	161.625
21	157.050	156.050 OR 161.650
81	157.075	161.675
22	157.100	157.100
82	157.125	161.725
23	157.150	156.150 OR 161.750
83	157.175	156.175 OR 161.775
24	157.200	161.800
84	157.225	161.825
25	157.250	161.850
85	157.275	161.875
26	157.300	161.900
86	157.325	161.925
27	157.350	161.950
87	157.375	161.975
28	157.400	162.000
88	157.425	162.025

***** You will note that not all of the above frequencies correspond with the United States uses.

FOOTNOTES:

a)Guardband - A channel used to separate the EMERGENCY CHANNEL (16) from other channels which might cause it interference.
b)Channel (6) may also be used for communication between ship stations and aircraft stations engaged in coordinated search and rescue operations.
c)Channels (15 & 17) may be used for on-board communications provided the effective radiated power does not exceed 1 watt.

d)Within the Maritime areas of Canada the Channels (10,67 & 73) may be used for communications between ship stations,aircraft stations and participating land stations engaged in coordinated search and rescue and anti-pollution operations in local areas.
e)The Channels (68,69,11,71,12,13,14,74,79 & 80) are the preferred channels for the ship movement service.They may however,be assigned to the port operations service until required for the ship movement service.

Our next report comes from Rudy (SD-003).Rudy states that boaters using Lewis & Clark Lake will have a 24 hour emergency frequency for their use this summer.Their will be a base station at the Yankton Police Department dispatching center with a repeater at Gavins Point.Boaters who are in need of assistance can call the Yankton Police Dispatcher on VHF Marine Channel 20.Assistance can be rendered either by the Yankton Police Patrol Boat,The Yankton Coast Guard Auxiliary or the South Dakota Department of Game,Fish and Parks.The new radio system should be in effect now and will continue on a 24 hour a day basis all year long.Lewis and Clark Lake is the most widely used lake in the state of South Dakota.

The above information comes from the "Lewis and Clark Lake Guide" along with information that rudy sent.

Being curious about what the marine listings are in South Dakota I looked them up and here they are:

Mobridge,S.D. - Jim Tisher - WHU-317 - 156.575 & 156.800
Mobridge,S.D. - Jim Tisher - KS-9996 - 156.000,156.575 & 156.800
Onida,S.D. - Sunset Lodge - WHH-231 - 156.425 & 156.800
Pierre,S.D. - Jim Downs - WHG-200 - 156.425 & 156.800
Pierre,S.D. - Communications Center - WHH-299 - 156.475 & 156.800
Pierre,S.D. - Pike Haven Resort - WHF-929 - 156.575 & 156.800
Pierre,S.D. - Oahe Lodge,Inc. - WHF-946 - 156.800 & 156.925
Pierre,S.D. - Hughes County - WHF-986 - 156.800 & 157.000
Pierre,S.D. - Hughes County - WHF-987 - 156.800 & 157.000
Pierre,S.D. - Hughes County - WHF-985 - 161.600
S.D. - Robt. Stoltenberg - KX-6354 - 156.425 & 156.800
S.D. - Peter Grossman - KX-7479 - 156.425 & 156.800
S.D. - Peter Grossman - KX-7662 - 156.800 & 156.925

The Yankton,S.D.Police Department Call sign is KSI-225 working on 460.575

From Rinehart (NJ-047) comes a copy of "SEA TECHNOLOGY" Magazine. This May 1984 issue is the Marine Communications issue.The future of marine communications seems to be satellites.As you know marine communications are now heard around 500 Kcs. CW; 2.0 - 30 Mhz. AM/SSB; 30 - 900 Mhz. AM/FM Voice (Scanners + Satellites) plus Microwave.

All of the above frequencies are for long distance communications with the exception of Scanners.

The "Mobilsat Satellite System" will offer 5000 duplex voice channels. The communications link between the mobiles and the satellites are in the 800 Mhz. band.

A correction to the April 84 column. Ed (MD-082) reported having interference on 156.800 and we reported that he used the frequency of 172.800 to pick it up.The correct frequency should have been 2 X the I.F. + the main Frequency or 156.800 + (10.7 X 2)= 178.200. If the interference still persists then you can change your I.F. a little to eliminate the interference.This should be done by the factory or other qualified technicans only who have the proper equipment.

Would you like to see a marine frequency profile for your area.Drop me a line and tell me what you would like.

Next month - - "CALIFORNIA DREAMING"

See you next month.

RCMA

• NEW MEMBERS LIST •

7 12 1984

AZ 059 O'BRIEN, THOMAS ;3901 W PARADICE DR;PHOENIX, AZ 85029
CAKE021 BRUNS, MR MRS ERWIN G.;P.O. BOX 21A;FRAZER PARK, CA 93225
CALA586 HOECKER, AUGUST;9945 LURLINE AVE S-214;CHATSWORTH, CA 91311
CALA587 KEEGAN, O.A.;537 SAN VICENTE BLVD;SANTA MONICA, CA 90402
CALA588 TSUBOTA, ALAN * ADDRESS WITHHELD BY REQUEST
CALA589 STIRLING, D.A.L.;1288 OAKRIDGE DRIVE;GLENDALE, CA 91205
CAOR280 WILLIAMS, AURTHUR;4218 SPINDRIFT WAY;NEWPORT BEACH, CA 92663
CAOR281 EVANUSKA, WALT;P.O. BOX 966;FULLERTON, CA 92632
CAOR282 BERGHOLZ, HARRY JR * ADDRESS WITHHELD BY REQUEST
CAOR283 LABOWITZ, RICK;24772 CLARINGTON DR;LAGUNA HILLS, CA 92653
CARI053 HAYEK, JERRY;562 EDGEMONT DR;MIRA LOMA, CA 91752
CASJ009 ANDERSON, MARK;P.O. BOX 4815;MODESTO, CA 95366
CASR023 EUM, MAJOR DAVID;232 ORION AVE;LOMPOC, CA 93436
CT 086 RACHIELLES, PAUL;201 STONE RD;BURLINGTON, CT 06013
IL 285 SPECK, RICHARD;P.O. BOX 642;LAKE FOREST, IL 60045
KS 034 DEAN, CHRISTOPHER W;314 W 10TH;ANDOVER, KS 67002
MD 091 TALBOT, RANDY;1729 A FOUNTAIN ROCK WAY;EDGEWOOD, MD 21040
MI 144 MEREDITH, MICHAEL;1649 BROADSTONE ;
GROSSE POINTE WOODS, MI 48236
MI 145 ALYEA, RAYMOND T;97 40TH ST S.W.;WYOMING, MI 49508
NC 058 ROBINSON, JEFFREY;P.O. BOX 955;ASHEVILLE, NC 28802
NC 059 ARMSTRONG, TONY;P.O. BOX 395;PINE BLUFF, NC 28373
NY 288 GLICK, KENNETH;712 PESTON ROAD;EAST MEDOW, NY 11554
NY 289 SPELLACY, EDWARD;1967 HENDRICKSON ST;BROOKLYN, NY 11234
OK 031 ELLIOTT, CHRIS;2418 W NEWTON CT;TULSA, OK 74127
OK 032 VIA, JIM;2133 N. SAPULPA AVE;OKLAHOMA CITY, OK 73107
PA 207 WIDMAN D.C., LARRY P;P.O. BOX 5246;LANCASTER, PA 17061
TN 025 LOWE, STEVE;RT 8 BOX 410;JOHNSON CITY, TN 37601
TX 152 LETNEY, JOHN;601 PINE ST;JASPER, TX 75951
VA 087 COLE, ALLEN;P.O. BOX 11282;RICHMOND, VA 23230
WA 061 KELLER, PAUL;2201 5TH STREET;EVERETT, WA 98201
WI 073 HANRAHAN, TOM;57 SUNFISH CT;MADISON, WI 53713
WI 074 KUTNYAK, K. * ADDRESS WITHHELD BY REQUEST
WI 075 CAMPBELL, DON A;1711 PENNSYLVANIA;SUN PRAIRIE, WI 53590
CANA109 ELLIOTT, SID;2405 COLLINGWOOD;
VANCOVER BC V6R 3L3 CANADA
CANA110 FULLER, L.;SS1-1-39 LETHBRIDGE;
ALBERTA T1J 4B3 CANADA
CANA111 BOYD, ALLAN C;81 ROBINSON ST P.O.BOX 208;
LTLE CURRENT ONT POP IKO CANADA

MEMBERSHIP CARDS AND BADGES

RCMA has no badges, decals, or membership cards for sale or distribution. The label on your newsletter is your membership card. While other clubs may have gimmicks or commercial good deals, our 'good deal' is your newsletter. You determine its content because you write it.

MAILING PROCEDURES

The newsletter mailed each month has a cover date for the following month. This practice is followed so that the US Post Office can deliver your issue no later than the first of the month designated on the cover.

New members whose applications are received before the end of the month will begin receiving the newsletter the following month. The first issue will be dated the month after that — as described above.

RENEWAL PROCEDURES

The date printed after the membership number on your newsletter mailing label shows the last month of your current membership. It is important to renew your membership by that date, as promptness on your part ensures uninterrupted delivery of the newsletter.

Renewal checks and new membership applications received by RCMA's General Manager, P.O. Box 542, Silverado, CA 92676, are processed for deposit on a weekly basis. Actual computer updating is done at the end of each month. Therefore, it is possible that your check or money order can be received — and even deposited — and your next issue will contain the statement "renewal overdue" on the mailing label. This simply means that your renewal was received after the cut-off date for runnning updated mailing labels.

PRORATED MEMBERSHIPS

Due to postage costs and other considerations, membership applications or renewals for any sum less than the current rate are prorated accordingly. This means that the renewal date will be due in less than a year. Please do not send more money to finish the year; just renew when your prorated date comes up.

Also because of postage costs, RCMA cannot comply with member requests to supply back issues free of additional charge (see the monthly Calendar section regarding ordering of back issues). If a late renewal results in a missed issue, the newsletter can be ordered from RCMA's secretary.

ADDRESS CHANGES

MEMBER notifications of address changes are also updated at the end of each month. If this type of address change notice arrives after the cut-off date, the mailing label will not reflect the new address until the following month.

The newsletter is mailed 3rd class under a bulk mail permit. When a member's address change is supplied by the POST OFFICE (instead of by the member), the charge to the club is 25¢. Although this fee is supposed to include forwarding of an issue to the new address, the result is often simply a return of the issue to P.O. 4563. The message is clear: when you move, notify RCMA yourself. Don't wait for the Post Office to do it.

SPECIAL FREQUENCY REQUESTS

Get in touch with your local RCMA group (see monthly Calendar section for chapter listings) or use the Contact/Information Wanted column for frequencies in your area. RCMA is not yet set up for national distribution of frequencies, although ultimately, the 'big picture' could include copies of the FCC and IRAC data bases, a fast computer, and software to select and sort in any order.

Contributions of frequencies and other material must be sent to the appropriate newsletter editor. (Editors use their own discretion in printing material sent them by non-members.) Data sent to P.O. Box 4563 is always subject to delay and sometimes cannot be forwarded because of postage costs.

DISCLAIMER

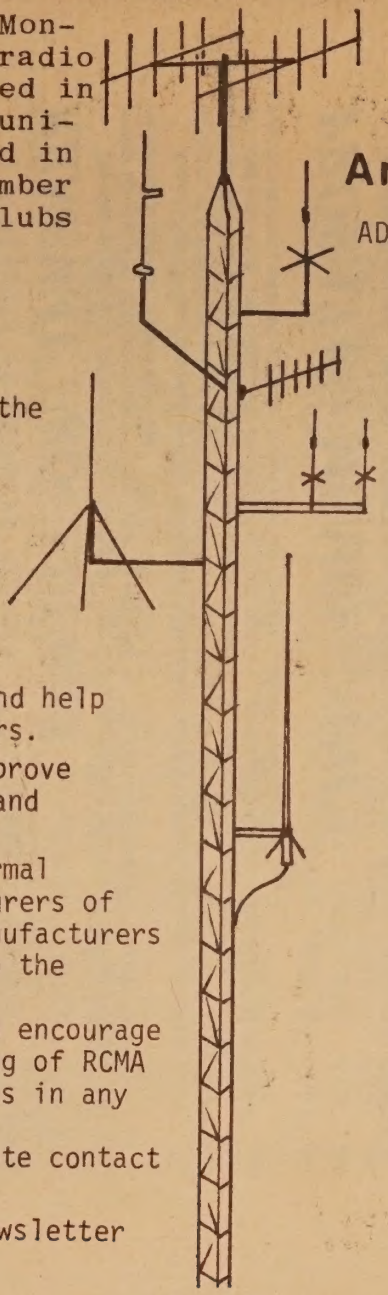
RCMA is a non-profit club for scanner enthusiasts. Neither RCMA or its newsletter are affiliated with, participate in the management of, or are responsible for, any other organization or publication. This disclaimer includes application to POLICE CALL, an annual publication put out by RCMA's good friend Gene Hughes. Queries about this publication cannot be answered by RCMA.

PLEASE REMEMBER — When writing to RCMA for any reason, include your membership number. Use it on your correspondence, checks, or money orders. RCMA tries hard to be responsive to your questions/problems. Using your membership number when you write helps us be of help to you.

The Radio Communications Monitoring Association is a radio club for persons interested in listening to two-way communications. RCMA was founded in May 1975 and is a Full Member of North American Radio Clubs (ANARC).

The goals of RCMA are:

1) To provide a fraternity for those who seriously pursue the hobby of monitor radio listening.
2) To try to be knowledgeable about two-way radio systems and operations.
3) To promote an understanding of the legal and ethical uses of monitor receivers.
4) To share information with and help other monitor radio listeners.
5) To try to understand and improve receivers, antenna systems and related equipment.
6) To offer suggestions and formal recommendations to manufacturers of monitor receivers and to manufacturers of other products related to the hobby.
7) To offer suggestions for and encourage the organizing and conducting of RCMA meetings and tours for groups in any geographic area.
8) To encourage and to facilitate contact between members.
9) To publish a regular club newsletter devoted to the hobby.



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Anaheim, CA 92803

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